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Project Number N2872

Commander, Southern Division
Naval Facilities Engineering Command
ATTN: Mr. Wayne Hansel (Code ES24)
2155 Eagle Drive
North Charleston, South Carolina 29406

Reference: CLEAN Contract Number N62467-94-D-0888
Contract Task Order (CTO) Number 0192

Subject: Site Investigation Report
Petroleum Contaminated Area 17 – High Power Turn-up Pad
Naval Air Station Jacksonville, Jacksonville, Florida

Dear Mr. Hansel:

Tetra Tech NUS, Inc. (TtNUS) is pleased to submit this Site Investigation Report for the High Power Turn-up Pad (HPTP). This report was prepared for the United States Navy (Navy) Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM) under Contract Task Order (CTO) 0192 for the Comprehensive Long-term Environmental Action Navy (CLEAN) Contract Number N62467-94-D0888. The objective of this report is to document results of the Site Assessment (SA) conducted at Petroleum Contamination Area (PCA) 17, HPTP. The SA activities were performed in accordance with the Contamination Assessment Plan for the HPTP dated August 2001 and in general accordance with Chapter 62-770, Florida Administrative Code (FAC). Originally, TtNUS was to provide a Site Assessment Report (SAR) for the HPTP. However, due to the findings of the SA, the Navy directed TtNUS to prepare a letter report for the site in lieu of a formal SAR.

Background Information

The HPTP is located in the northeast portion of Naval Air Station (NAS) Jacksonville near the Gas Hill (Facility 159) Bulk Fuel Storage and Distribution Facility (see Figure 1). The HPTP is located approximately 0.5 mile west-northwest of the Gas Hill (Facility 159), north of the runway, and near the bank of the St. Johns River. This area of the base is covered mostly by grass, with some areas of asphalt and concrete.

In June 1997, when the old A7 HPTP was demolished, a petroleum odor and sheen were observed from the soil and groundwater beneath the concrete pad during excavation. A headspace analysis was performed and determined the soil to be "excessively contaminated" (based on Chapter 62-770, FAC criteria). The source and release date of the contamination is unknown but estimated to be prior to 1978, which was the last time the A7's performed high power turn-ups at the pad. There were no underground storage tanks or aboveground storage tanks at the site, so it was assumed that the contamination was probably the result of releases during pad use.

When the petroleum-impacted soil was discovered, Bechtel Environmental, Inc. (BEI) removed the contaminated soil and transported the material off site for thermal treatment and disposal. A new S-3 HPTP was constructed in August 1997 at the same location.

A site plan of the current HPTP is shown on Figure 2. TtNUS could not locate any figures showing the location of the previous A7 HPTP. However, it has been reported to TtNUS that the locations of the turn-up pads are the same. In addition, the exact location and extent of excavated soil is unknown.

Site Assessment Activities

Starting in the fall of 2001, TtNUS conducted the SA activities at the HPTP. The SA was conducted in a series of phases. TtNUS mobilized to the HPTP on September 29, 2001 for the first phase of the investigation. The first phase of the investigation consisted of soil and groundwater sampling with the use of direct-push technology (DPT) and media analysis with a mobile laboratory. The second phase consisted of the installation and sampling of three permanent monitoring wells based on the results of the DPT/mobile lab screening. The third phase consisted of the installation of two additional monitoring wells based on the findings of the previous assessment activities. It should be noted that the Navy instructed TtNUS not install any soil borings or monitoring wells in the concrete portion of the HPTP. The concrete pad is steel reinforced and structured to anchor S-3 planes while the engines are fired. Any borings in the concrete pad may have compromised the structural stability of the pad.

Site Lithology

Via DPT, soil samples were collected to a depth of 24 feet (ft) below land surface (bls) at the HPTP for lithological purposes. The HPTP is raised approximately 3 ft above the surrounding environment. The site is mounded and underlain by a layer of sand and gravel fill from land surface to 3 ft bls. A gray clayey sand begins at 3 ft bls and continues to a depth of 8 ft bls. At 8 ft bls, a coarse sand with shells was encountered to a depth of 15 ft bls. At 15 ft bls a greenish clay layer was encountered and continued to the boring termination depth of approximately 24 ft bls. Boring logs are included in Attachment A.

Direct-Push Soil Borings

A soil vapor assessment was conducted on September 29 and 30, 2001. Fifteen soil borings (JAX-HPTP-SB-1 through JAX-HPTP-SB-15) were advanced around the HPTP concrete pad. Soil borings were advanced using a truck mounted, direct-push, hydraulic soil probe. Soil cores were collected using 4-ft long stainless steel core barrel samplers lined with plastic sleeves beginning at approximately 1 ft bls and continued at 4-ft intervals until approximately 1 ft into the saturated zone (typically at 4 to 5 ft in depth). At one boring location (JAX-HPTP-SB-10) soil samples were collected to a depth of 24 ft bls for vertical profiling. Soil boring locations are depicted on Figure 3.

The cores were visually inspected and classified for lithology and evidence of staining. Soil samples were collected from each soil core (from 1 ft bls and 3 ft bls) and screened with an organic vapor analyzer (OVA)-flame ionization detector (FID). Soil vapor analysis was performed in accordance with the headspace screening methodology prescribed by Chapter 62-770.200(2), FAC. A duplicate of the sample from the interval with the highest OVA-FID reading from above the water table was retained and analyzed by an on-site mobile laboratory for benzene, toluene, ethylbenzene, and xylenes (BTEX); methyl tert-butyl ether (MTBE); naphthalene; 1-methylnaphthalene; and 2-methylnaphthalene.

Groundwater Sampling Direct-Push Investigation

During the DPT/mobile laboratory field investigation, each soil boring was continued into the saturated zone to collect groundwater samples for mobile laboratory screening. Groundwater samples were collected from each boring at an approximate depth of 6 to 10 ft bls. At one location (JAX-HPTP-SB-10) a groundwater sample was collected from 20 to 24 ft bls for vertical profiling. The samples were collected

using a detachable drive tip attached to a 48-inch long, retractable stainless steel well screen encased in the lead probe tube. After the water sampler was advanced into the water-bearing zone, the probe was withdrawn 48 inches to allow the retractable screen to open to the formation. For groundwater recovery, a length of Teflon® tubing was inserted into the probe and connected to a peristaltic pump. Several screen volumes were then pumped from the probe in order to reduce the turbidity level and ensure a representative sample. After purging, the groundwater samples were collected and provided to the on-site mobile laboratory for screening of BTEX, MTBE, naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene.

Monitoring Well Construction and Development

Monitoring wells were installed in select locations based on the DPT/mobile laboratory screening results. The monitoring wells were placed to provide spatial coverage around the site and to confirm the nature and extent of the hydrocarbon plume at the HPTP area. A monitoring well location map is provided as Figure 4.

Monitoring wells JAX-17-MW-01, JAX-17-MW-02, JAX-17-MW-03, JAX-17-MW-04, and JAX-17-MW-05 were advanced using 4 ¼-inch inside diameter (ID) hollow-stem augers. Each well was constructed of 2-inch ID flush threaded, schedule 40 polyvinyl chloride (PVC) solid riser and 0.010-inch slot well screen with a silt trap and well bottom cap.

The monitoring wells were installed to approximately 13 ft with a 10-ft screened interval. Each annulus was filled to approximately 2 ft above the well screen with US Standard Sieve size 20/30 silica sand. The 20/30 sand was capped to about 1 ft bls with 30/65 sand. The remainder of the annulus was grouted to the surface with a cement/bentonite grout. Each well was secured with a locking, watertight cap within a steel, 8-inch diameter steel manhole. The manhole was set within a 24-inch square apron finished slightly above grade. Well completion logs are provided in Appendix A.

Each well was developed using a submersible pump. During well development, field measurements of pH, temperature, and specific conductance were monitored from the purge water generated. The wells were developed under supervision of a geologist up to a maximum of 1 hour or until the field measurements became stable and the purge water clear. Water quality stabilization was determined using the following criteria: temperature ±5 degrees Celsius (?C), pH ±0.1 unit, and specific conductance ±10 micro-ohms per centimeter (µmhos/cm). All development water was containerized for disposal in 55-gallon steel drums.

Water Level Measurements

Water level measurements were collected to determine the depth to water in the surficial aquifer and to determine the relative groundwater flow direction. The depth to water measurements for monitoring wells JAX-17-MW-01 through JAX-17-MW-03 were measured on October 24, 2001, and monitoring wells JAX-17-MW-01 through JAX-17-MW-05 on January 3, 2002. Measurements were collected from the north rim of the top of well casings using an electronic water level indicator. During the January measurement, the water was at the top of the well in JAX-17-MW-02 and JAX-17-MW-03. There was no measurable difference between the top of casing and the groundwater elevations. However, the well did not appear to be artesian. Depth to water measurements are provided in Table 1. A potentiometric surface map for the January 2002 sampling event is provided as Figure 5.

The elevation of the north rim for each top of well casing (JAX-17-MW-01, JAX-17-MW-02, JAX-17-MW-03, JAX-17-MW-04, and JAX-17-MW-5) was surveyed relative to each other by TtNUS personnel with respect to an assumed vertical datum. The top of casing elevation of each permanent monitoring well was surveyed relative to each other and referenced to site features. The groundwater elevation was calculated by subtracting the depth to water from the top of casing elevation.

Groundwater Sampling of Monitoring Wells

Groundwater sampling of monitoring wells was performed to determine the presence or absence of dissolved petroleum hydrocarbons in groundwater in the vicinity of the HPTP. TtNUS personnel collected groundwater samples from MW-01 through MW-03 on October 24, 2001 and from JAX-17-MW-04 and JAX-17-MW-05 on January 3, 2002. The groundwater samples were analyzed for volatile organic compounds VOCs using United States Environmental Protection Agency (USEPA) Method 8021B, polynuclear aromatic hydrocarbons (PAHs) using USEPA Method 8310, total recoverable petroleum hydrocarbons (TRPH) using Florida-Petroleum Range Organics (FL-PRO), ethylene dibromide (EDB) using USEPA Method 504.1, and total lead using USEPA Method 6010. Prior to sampling, approximately three to five well volumes of groundwater were removed from each well using low flow quiescent purging methods. Temperature, pH, specific conductance measurements, and well purge volumes were recorded at the time of sample collection. Groundwater samples were placed on ice and shipped to Accutest Laboratories in Orlando, Florida.

Monitoring wells JAX-17-MW01 through JAX-17-MW-05 are referred to as, and correspond with, HPTP-MW-01 through HPTP-MW-05 in the laboratory analytical data packages provided in Appendix C.

Soil Vapor Analysis Results

The potential for petroleum impacted soil in the vadose zone was assessed through soil headspace analysis. The results of the soil vapor screening, presented in Table 2, indicated soil at eight soil boring locations contained hydrocarbon vapors above 50 parts per million (ppm). For diesel fuel sites, soils exhibiting an OVA response of greater than 50 ppm are considered "excessively contaminated" as defined by Chapter 62-770.200, FAC. The 50 ppm criteria was used, as the most likely source of hydrocarbon contamination at the site is jet fuel.

Mobile Laboratory Soil Sampling Results

For soil screening at the site, a soil sample was collected from each soil boring and provided to the on-site mobile laboratory. The samples were analyzed for MTBE, BTEX, naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene. No constituents were detected in any of the soil samples analyzed by the mobile lab. The complete set of analytical results is presented in Attachment B. A summary of the mobile laboratory results is presented in Table 3.

Fixed-based Laboratory Soil Sampling Results

Three soil samples from soil borings SB-05, SB-10, and SB-11 (SB05-S03, SB10-S03, and SB11-S03) were collected for fixed-based laboratory analysis on September 30, 2001. The soil samples were collected; placed on ice; shipped to Accutest Laboratories in Orlando, Florida; and analyzed for VOCs using USEPA Method 8021B, PAHs using USEPA Method 8310, and TRPH using FL-PRO. Results of the laboratory analysis indicated the presence of petroleum compounds. However, no constituents were detected above the established soil cleanup target levels (SCTLs). A summary of detected constituents is presented in Table 4. The complete set of analytical results is presented in Attachment C. A comparison of soil vapor readings with confirmatory soil analytical results indicates that "excessively contaminated soil" is not present at the HPTP.

Groundwater Results

The mobile laboratory groundwater analytical results, provided on Table 5 and presented on Figure 6, indicate three PAH constituents (naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene) exceeded FDEP groundwater cleanup target levels (GCTLs) in boring SB10. Mobile laboratory groundwater analytical results are located in Attachment B.

Groundwater samples collected from the permanent monitoring wells were placed on ice and shipped to Accutest Laboratories in Orlando, Florida for fixed-based analysis. The samples were analyzed for VOCs using USEPA Method 8021B, PAHs using USEPA Method 8310, TRPH using FL-PRO, EDB using USEPA Method 504.1, and lead using USEPA Method 6010. Analytical results indicated vinyl chloride in groundwater samples from MW-03 [2.3 micrograms per liter (µg/L)] and MW04 (6.7 µg/L) exceeded the FDEP GCTL of 1 µg/L. No additional parameters were detected above their established GCTLs. Monitoring well groundwater results are summarized Table 6 and presented on Figure 7. The complete set of analytical results is presented in Attachment C.

Conclusions and Recommendations

Data obtained during the field screening at HPTP indicated headspace readings greater than 50 ppm. However, "excessively contaminated" soil was not confirmed by laboratory soil analysis. The groundwater samples collected during the DPT/mobile lab screening indicated the presence PAHs in excess of FDEP GCTLs from one soil boring location (SB-10). However, groundwater samples collected from permanent monitoring wells indicted dissolved PAHs are not present above FDEP GCTLs at the HPTP. The presence of vinyl chloride, in MW-03 and MW-04, indicates the presence of chlorinated solvents at the site. A potential source of chlorinated solvent contamination is thought to be the servicing of planes at the site during routine repairs while testing.

As a result of the HPTP SA, TtNUS recommends that this site no longer be evaluated under the petroleum contamination program. The lack of typical petroleum compounds and the presence of chlorinated solvent constituents detected above GCTLs indicates that it may be necessary for the NAS Jacksonville Partnering Team to consider to further investigation of the site under the Installation Restoration (IR) program.

Sincerely,

Gregory S. Roof
Task Order Manager

GSR/jf

Attachments (5)

cc: Dana Gaskins, SOUTHNAVFACENGCOM (CD only)
Jorge Caspary, FDEP (hard copy, CD)
Frank Sigona, NAS Jacksonville (hard copy, CD)
D. Wroblewski (letter only)
M. Perry (unbound copy, CD)
File – CTO 192

TABLES

TABLE 1
WATER TABLE ELEVATION AND MONITORING WELL CONSTRUCTION DATA

PCA 17 - HIGH POWER TURN-UP PAD
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Monitoring Well ID	Screened Interval Depth (ft bls)	Top-of-Casing Elevation (ft)[1]	October 24, 2001		January 3, 2002	
			Depth to Water Below Top-of-Casing (ft)	Water Elevation (ft)	Depth to Water Below Top-of-Casing (ft)	Water Elevation (ft)
JAX-17-MW-1	2.5 to 12.5	14.50	4.80	9.70	3.54	10.96
JAX-17-MW-2	2.0 to 12.0	10.83	1.26	9.57	0.00	10.83
JAX-17-MW-3	2.0 to 12.0	10.51	0.93	9.58	0.00	10.51
JAX-17-MW-4	2.0 to 12.0	11.11	NM	--	0.07	11.04
JAX-17-MW-5	2.0 to 12.0	10.73	NM	--	1.28	9.45

Notes: NM = Not Measured

ft bls = feet below land surface

[1] The wells were surveyed relative to each other by TtNUS staff. The approximate elevations used in this table are based on information provided in the 1993 USGS Topographic Map, Orange Park Quadrangle. The elevation of JAX-17-MW-1 was assumed to be 14.50 feet above mean sea level and the other wells were surveyed relative to it.

TABLE 2
SOIL VAPOR MEASUREMENTS

PCA 17 - HIGH POWER TURN-UP PAD
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Soil Boring Number	Date of Measurement	Sample Depth (ft bls)	Headspace Readings (ppm)		
			Total Organic Reading	Carbon Filtered Reading	Net Reading
JAX-HPTP-SB1	9/28/2001	1	NM	NM	NA
		3	358	107	**251**
JAX-HPTP-SB2	9/29/2001	1	0	NM	0
		3	17.3	71.3	--
JAX-HPTP-SB3	9/29/2001	1	0	NM	0
		3	0.8	NM	0.8
JAX-HPTP-SB4	9/29/2001	1	0	NM	0
		3	84.5	223.4	--
JAX-HPTP-SB5	9/29/2001	1	33.6	15.9	17.7
		3	1791	624	**1167**
JAX-HPTP-SB6	9/29/2001	1	0	NM	0
		3	322	379	--
JAX-HPTP-SB7	9/29/2001	1	0	NM	0
		3	1468	1241	**227**
JAX-HPTP-SB8	9/29/2001	1	0	NM	0
		3	41.1	193.2	--
JAX-HPTP-SB9	9/29/2001	1	0	NM	0
		3	589	423.2	**165.8**
JAX-HPTP-SB10	9/29/2001	1	81.2	0	**81.2**
		3	304.4	197.6	**106.8**
JAX-HPTP-SB11	9/29/2001	1	102.7	0	**102.7**
		3	759.4	748	11.4
JAX-HPTP-SB12	9/29/2001	1	136.1	0	**136.1**
		3	636.2	655.7	--
JAX-HPTP-SB13	9/29/2001	1	11.1	0	11.1
		3	1511	1088	**423**
JAX-HPTP-SB14	9/29/2001	1	0	NM	0
		3	1473	3396	--
JAX-HPTP-SB15	9/30/2001	1	0	NM	0
		3	26.1	198.6	--

Notes:
Wet Soils encountered at depths ranging from 3.5 to 4 ft.
Bold indicates exceedance
ft bls = feet below land surface
NA = not applicable
NM = not measured
-- = value not reported because calculation was less than zero
ppm = parts per million

TABLE 3
MOBILE LABORATORY SOIL RESULTS

PCA 17 - HIGH POWER TURN-UP PAD
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Sample ID	SCTLs[1] (µg/kg)	SB 1 SO3	SB 2 SO3	SB 3 SO3	SB 4 SO3	SB 5 SO3	SB 6 SO3	SB 7 SO3	SB 8 SO3
Location		JAX-HPTP-SB-1	JAX-HPTP-SB-2	JAX-HPTP-SB-3	JAX-HPTP-SB-4	JAX-HPTP-SB-5	JAX-HPTP-SB-6	JAX-HPTP-SB-7	JAX-HPTP-SB-8
Date of Analysis		9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001
MTBE	50	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	40	<10	<10	<10	<10	<10	<10	<10	<10
Ethylbenzene	30	<10	<10	<10	<10	<10	<10	<10	<10
m&p-xylene	20	<10	<10	<10	<10	<10	<10	<10	<10
Naphthalene	20	<10	<10	<10	<10	<10	<10	<10	<10
1-Methylnaphthalene	20	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	20	<10	<10	<10	<10	<10	<10	<10	<10

Sample ID	SCTLs (mg/kg)	SB 9 SO3	SB 10 SO3	SB 11 SO3	SB 12 SO3	SB 13 SO3	SB 14 SO3	SB 15 SO3
Location		JAX-HPTP-SB-9	JAX-HPTP-SB-10	JAX-HPTP-SB-11	JAX-HPTP-SB-12	JAX-HPTP-SB-13	JAX-HPTP-SB-14	JAX-HPTP-SB-15
Date of Analysis		9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001
MTBE	50	<10	<10	<10	<10	<10	<10	<10
Benzene	1	<10	<10	<10	<10	<10	<10	<10
Toluene	40	<10	<10	<10	<10	<10	<10	<10
Ethylbenzene	30	<10	<10	<10	<10	<10	<10	<10
m&p-xylene	20	<10	<10	<10	<10	<10	<10	<10
Naphthalene	20	<10	<10	<10	<10	<10	<10	<10
1-Methylnaphthalene	20	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	20	<10	<10	<10	<10	<10	<10	<10

Notes:
[1] Soil Cleanup Target Levels (SCTLs) (from Chapter 62-770, FAC (April 30, 1999))
< = less than method detection limits
µg/kg = micrograms per kilogram

TABLE 4
FIXED-BASED LABORATORY SOIL ANALYTICAL RESULTS

PCA 17 - HIGH POWER TURN-UP PAD
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Compound	FDEP SCTL[1]		PCA 17		
	Direct Exposure Residential	Leachability Based on Groundwater	**JAX-HPTP-SB05-S03**	**JAX-HPTP-SB10-S03**	**JAX-HPTP-SB11-S03**
			9/30/2001	9/30/2001	9/30/2001
Sample Interval			3 ft bls	3 ft bls	3 ft bls
PAHs (USEPA Method 8310) (µg/kg)					
Benzo(A)Pyrene	100	8000	46.6J	<74	<76
FL-PRO (mg/kg)					
TRPH	340	340	44.9	9.48	<9.4

Notes:
J = Estimated value less than practical quantitation level
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
[1]FDEP SCTL = Florida Department of Environmental Protection Soil Clean Target Level Chapter 62-770, FAC (April 30, 1999)

TABLE 5
MOBILE LABORATORY GROUNDWATER RESULTS

PCA 17- HIGH POWER TURN-UP PAD
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Sample ID	GCTLs (µg/L)[1]	SB 1 (4'-8')	SB 2 (6'-10')	SB 3 (6'-10')	SB 4 (6'-10')	SB 5 (6'-10')	SB 6 (6'-10')	SB 7 (6'-10')	SB 8 (6'-10')
Location		JAX-HPTP-SB-1	JAX-HPTP-SB-2	JAX-HPTP-SB-3	JAX-HPTP-SB-4	JAX-HPTP-SB-5	JAX-HPTP-SB-6	JAX-HPTP-SB-7	JAX-HPTP-SB-8
Date of Analysis		9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001
MTBE	50	<1	<1	<1	<1	<1	<1	<1	<1
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	40	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	30	<1	<1	<1	<1	<1	<1	<1	<1
m&p-xylene	20	<1	<1	1.1	<1	<1	<1	<1	<1
Naphthalene	20	<1	<1	<1	<1	1.4	<1	1.0	<1
1-Methylnaphthalene	20	<1	<1	<1	<1	<1	<1	<1	1.2
2-Methylnaphthalene	20	<1	<1	<1	<1	<1	<1	<1	1.1

Sample ID	GCTLs (µg/L)	SB 9 (6'-10')	SB 10 (6'-10')	SB 10 (20'-24')	SB 11 (6'-10')	SB 12 (6'-10')	SB 13 (6'-10')	SB 14 (6'-10')	SB 15 (6'-10')
Location		JAX-HPTP-SB-9	JAX-HPTP-SB-10	JAX-HPTP-SB-10	JAX-HPTP-SB-11	JAX-HPTP-SB-12	JAX-HPTP-SB-13	JAX-HPTP-SB-14	JAX-HPTP-SB-15
Date of Analysis		9/29/2001	9/29/2001	9/30/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/30/2001
MTBE	50	<1	<1	<1	<1	<1	<1	<1	<1
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	40	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	30	<1	4.8	<1	<1	<1	<1	<1	<1
m&p-xylene	20	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene	20	6.4	**46.2**	<1	3.4	<1	<1	<1	1.7
1-Methylnaphthalene	20	7.8	**22.0**	<1	4.1	<1	<1	<1	<1
2-Methylnaphthalene	20	6.2	**22.0**	<1	3.7	<1	<1	<1	<1

Notes:
[1]Chapter 62-770, FAC (April 30, 1999)
Bold indicates exceedance of Groundwater Cleanup Target Levels (GCTLs).
µg/L = micrograms per liter

TABLE 6
FIXED BASED LABORATORY GROUNDWATER ANALYTICAL RESULTS

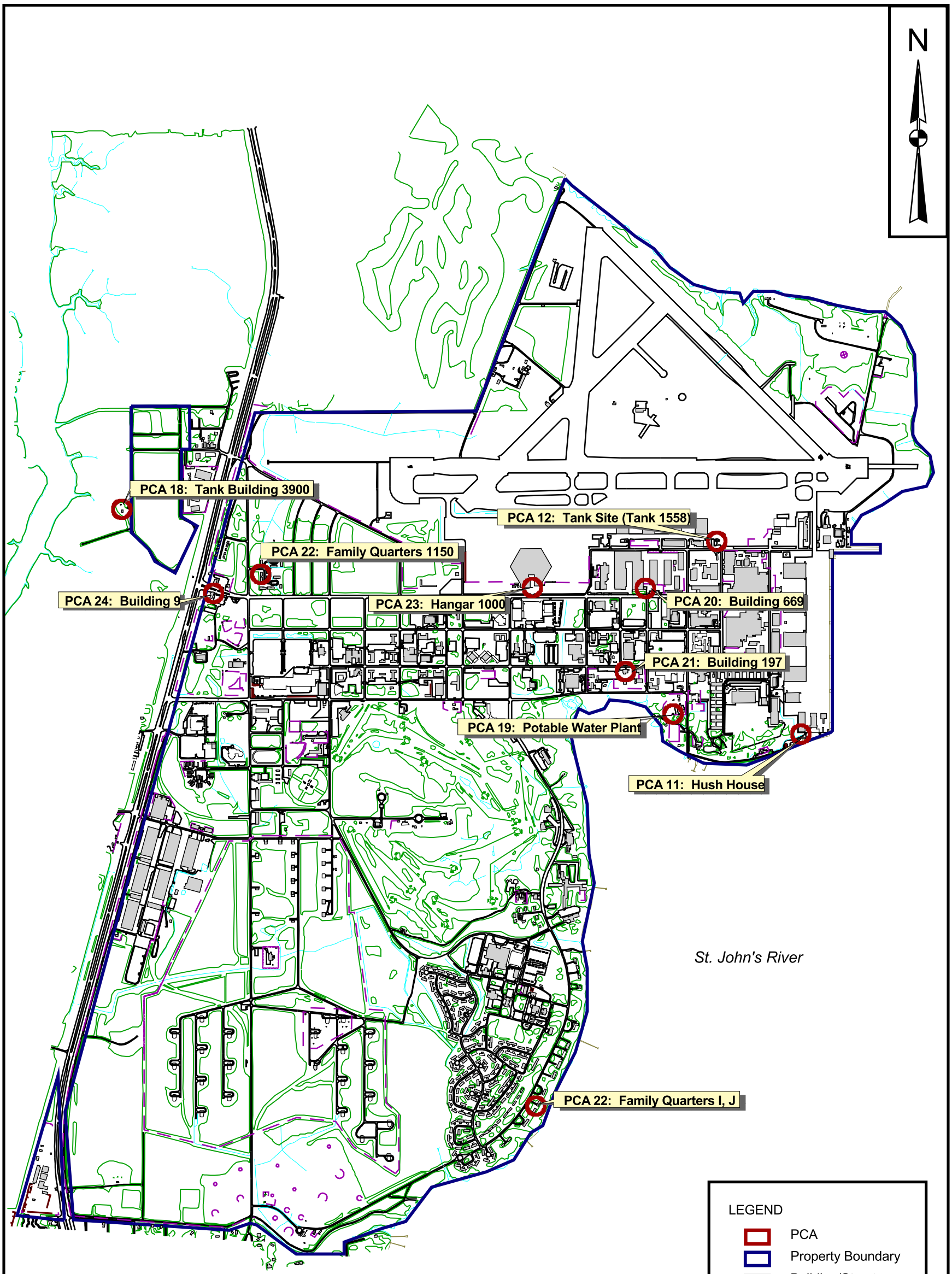
PCA 17 - HIGH POWER TURN-UP PAD
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Compound	FDEP Target Level[1]	JAX-17-MW1-01	JAX-17-MW2-01	JAX-17-MW3-01	JAX-17-MW4-01	JAX-17-MW5-01
		10/24/2001	10/24/2001	10/24/2001	1/3/2002	1/3/2002
VOCs (USEPA Method 8021B) (µg/L)						
cis 1,2 Dichloroethene	70	1U	0.82J	6.2	24.4	2.8
trans 1,2 Dichloroethene	100	1U	1U	1U	0.5J	1U
Trichloroethene	3	1U	1U	0.62J	0.81J	0.49J
Vinyl Chloride	1	1U	1U	**2.3**	**6.7**	0.84J
FL-PRO (USEPA Method 8270) (mg/L)						
TRPH	5	0.25U	0.27	0.726	0.25U	0.25U

Notes:
[1]Chapter 62-770, FAC (August, 1999)
U = below method detection limit
J = estimated values less than practical quantitaion leve
Bold indicates exceedance of target level.
mg/L = milligrams per liter
µg/L = micrograms per liter

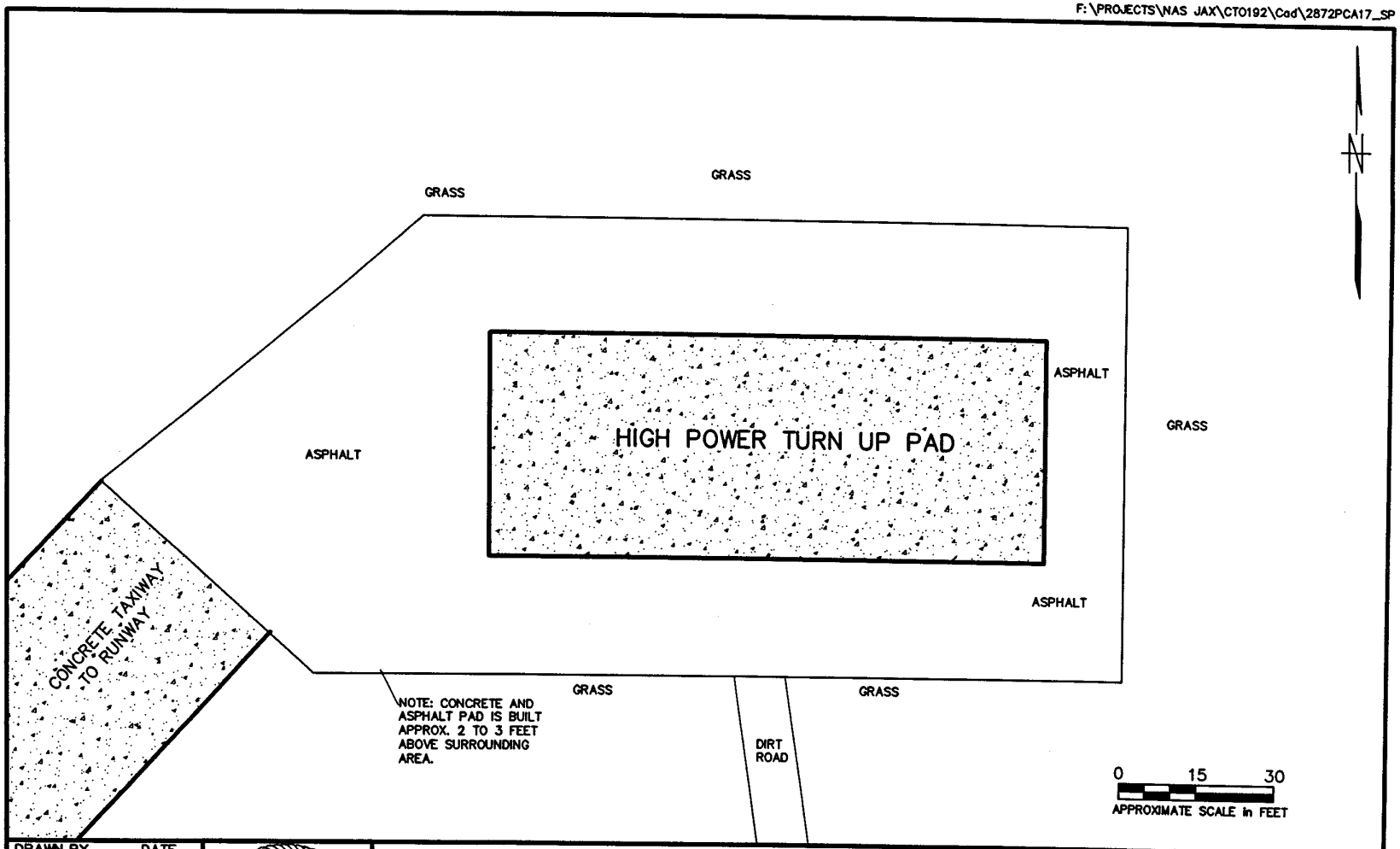
FIGURES

P:\GIS\JACKSONVILLE_NAS\APR\PCA.APR PCA SITE MAP 5/15/02 JAL



DRAWN BY: J. LAMEY	DATE: 5/14/02	SITE LOCATION MAP PETROLEUM CONTAMINATION ASSESSMENT NAVAL AIR STATION JACKSONVILLE, FLORIDA	CONTRACT NUMBER: —
CHECKED BY: _____	DATE: _____		APPROVED BY: — DATE: —
COST/SCHEDULE-AREA			APPROVED BY: — DATE: —
SCALE: AS NOTED			DRAWING NO.: FIGURE 1 REV: 0

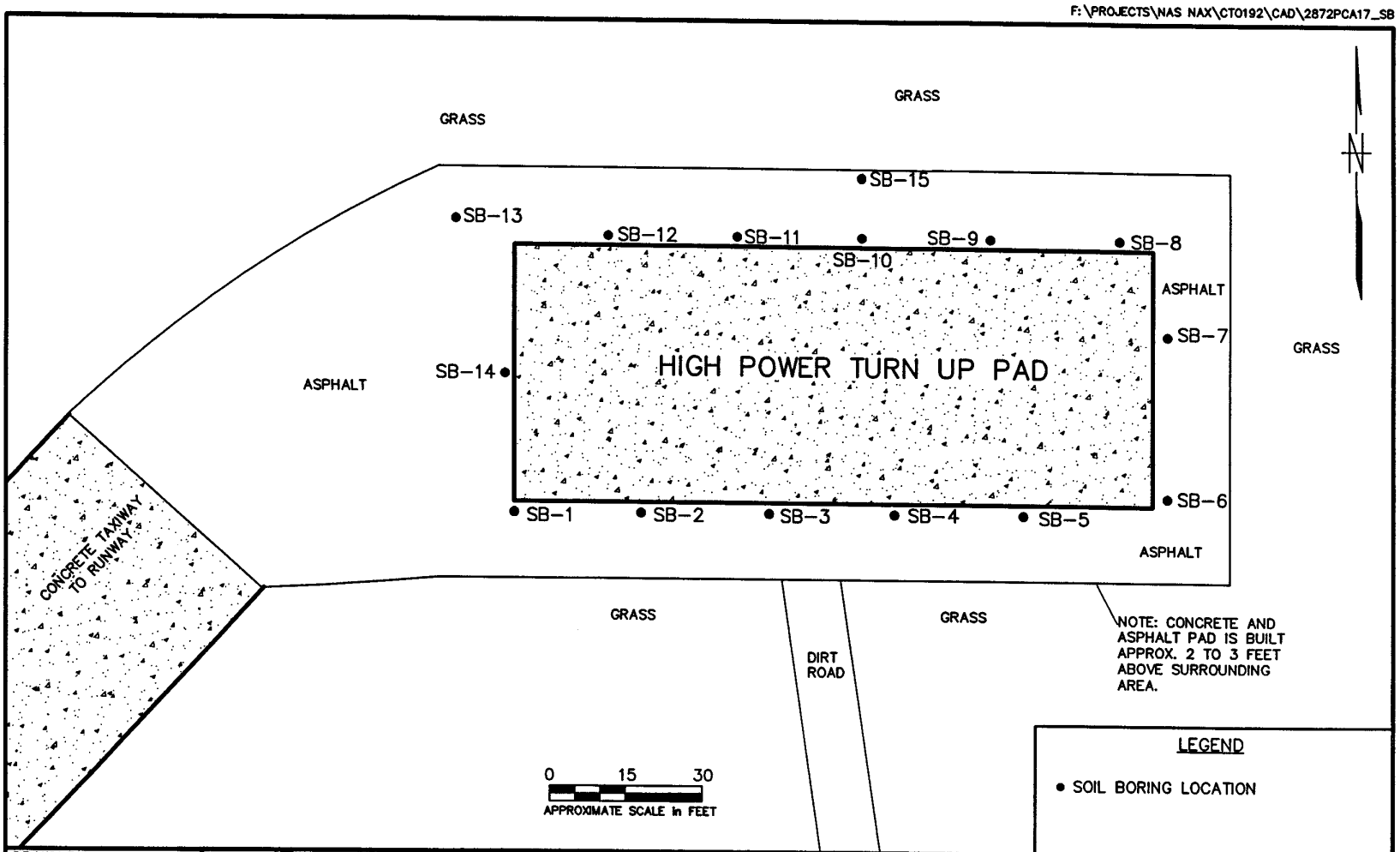
F:\PROJECTS\NAS JAX\CTO192\Cad\2872PCA17_SP



DRAWN BY LLK DATE 2/11/02	SITE PLAN HIGH POWER TURN-UP PAD NAS JACKSONVILLE JACKSONVILLE, FLORIDA	CONTRACT NO. 2872
CHECKED BY DATE		APPROVED BY DATE
COST/SCHED-AREA		APPROVED BY DATE
SCALE AS NOTED		DRAWING NO. FIGURE 2 REV. 0

FORM CADD NO. SDIV_AH.DWG - REV 0 - 1/20/98

F:\PROJECTS\NAS NAX\CT0192\CAD\2872PCA17_SB



DRAWN BY LLK DATE 11/10/01	SOIL BORING LOCATION MAP HIGH POWER TURN-UP PAD NAS JACKSONVILLE JACKSONVILLE, FLORIDA	CONTRACT NO. 2872
CHECKED BY DATE		APPROVED BY DATE
COST/SCHED-AREA		APPROVED BY DATE
SCALE AS NOTED		DRAWING NO. FIGURE 3 REV. 0

FORM CADD NO. SDIV_AH.DWG - REV 0 - 1/20/98

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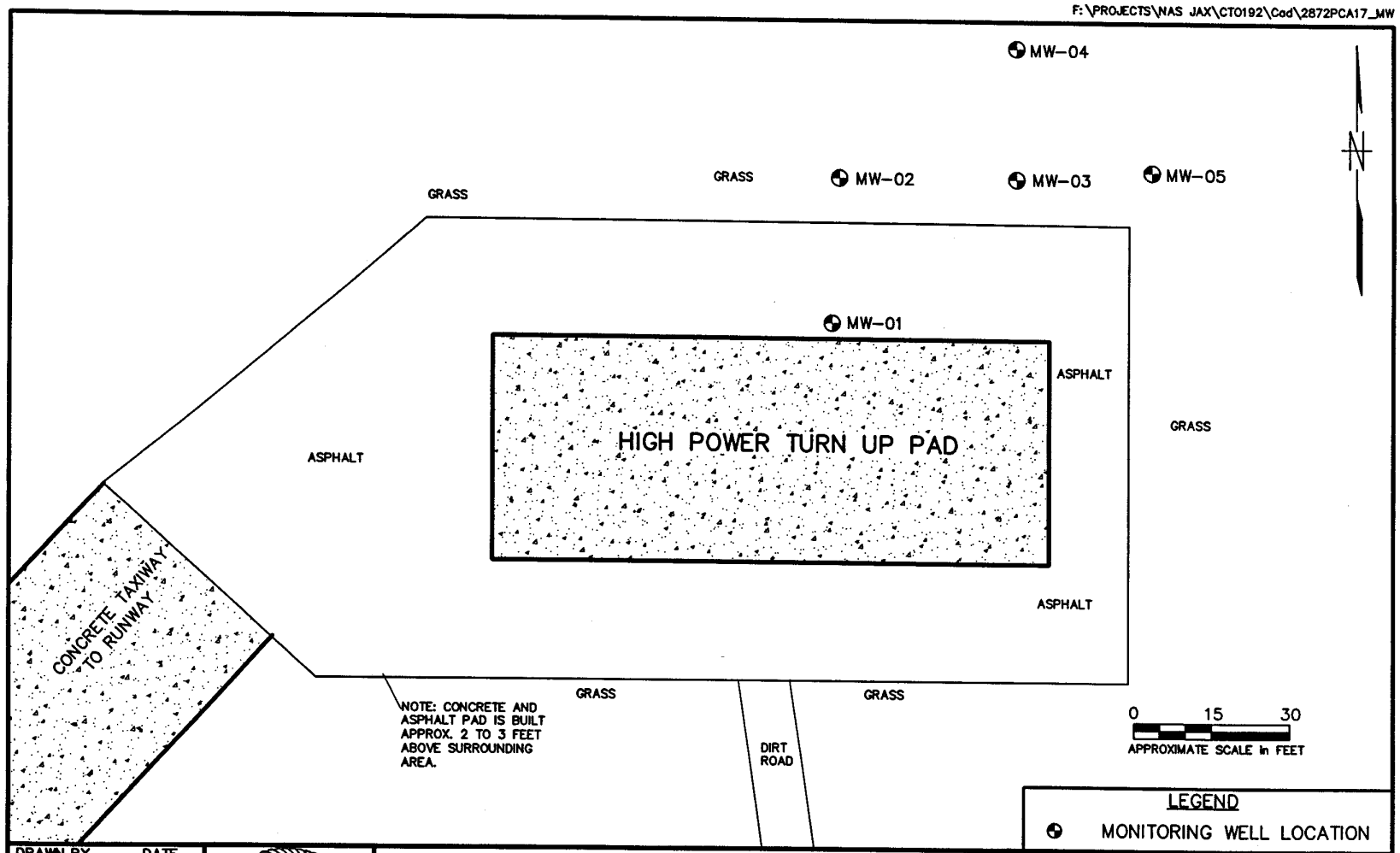

DRAWN BY LLK	DATE 2/11/02	MONITORING WELL LOCATION MAP HIGH POWER TURN-UP PAD NAS JACKSONVILLE JACKSONVILLE, FLORIDA
CHECKED BY	DATE	
COST/SCHED-AREA		
SCALE AS NOTED		

CONTRACT NO. 2872

APPROVED BY DATE

APPROVED BY DATE

DRAWING NO. FIGURE 4 REV. 0

FORM CADD NO. SDIV_AH.DWG - REV 0 - 1/20/98

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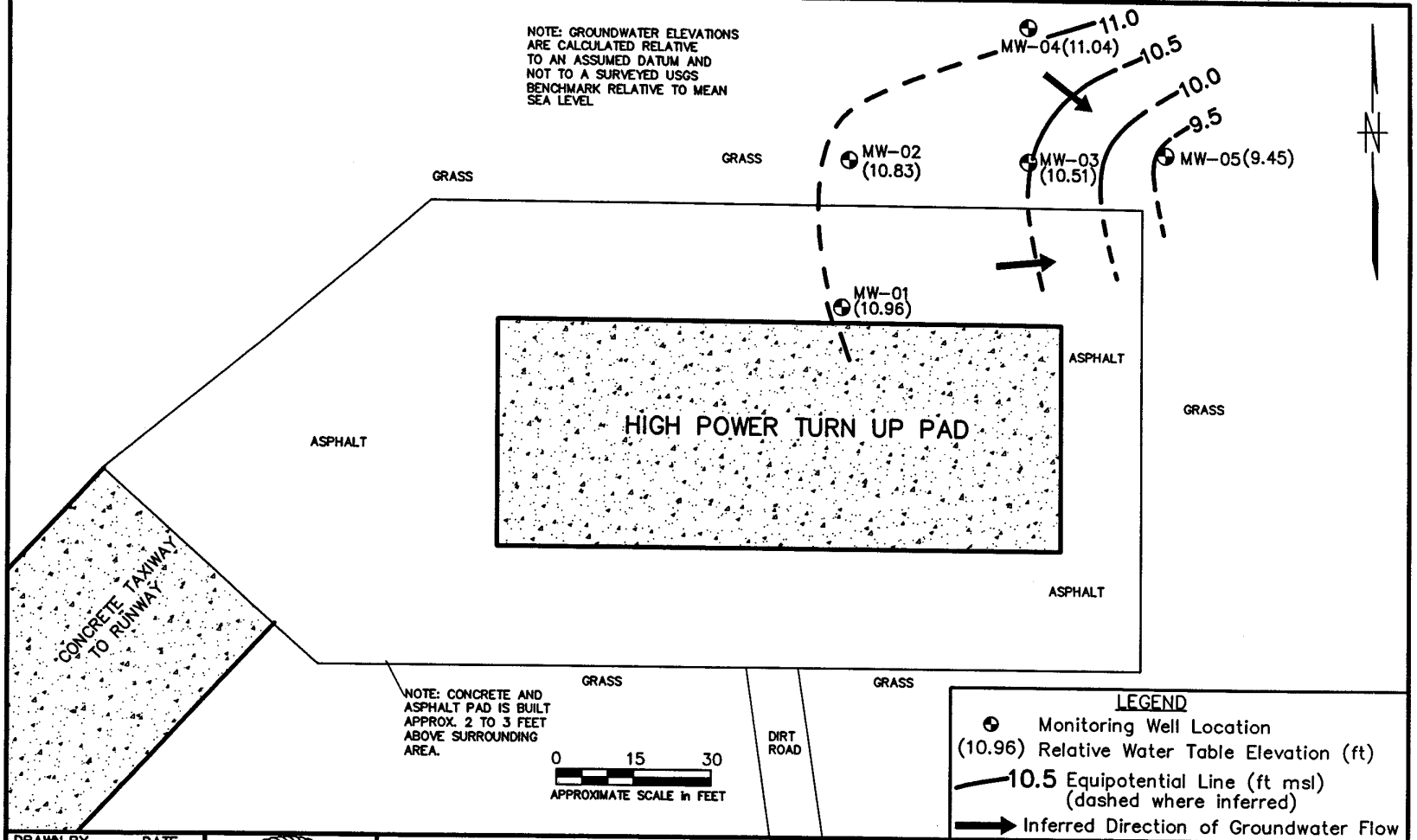

DRAWN BY LLK	DATE 2/11/02	GROUNDWATER ELEVATION CONTOUR MAP JANUARY 2002 HIGH POWER TURN-UP PAD NAS JACKSONVILLE JACKSONVILLE, FLORIDA	CONTRACT NO. 2872
CHECKED BY	DATE		APPROVED BY DATE
COST/SCHED-AREA			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 5 REV. 0

FORM CADD NO. SDIV_AH.DWG - REV 0 - 1/20/98

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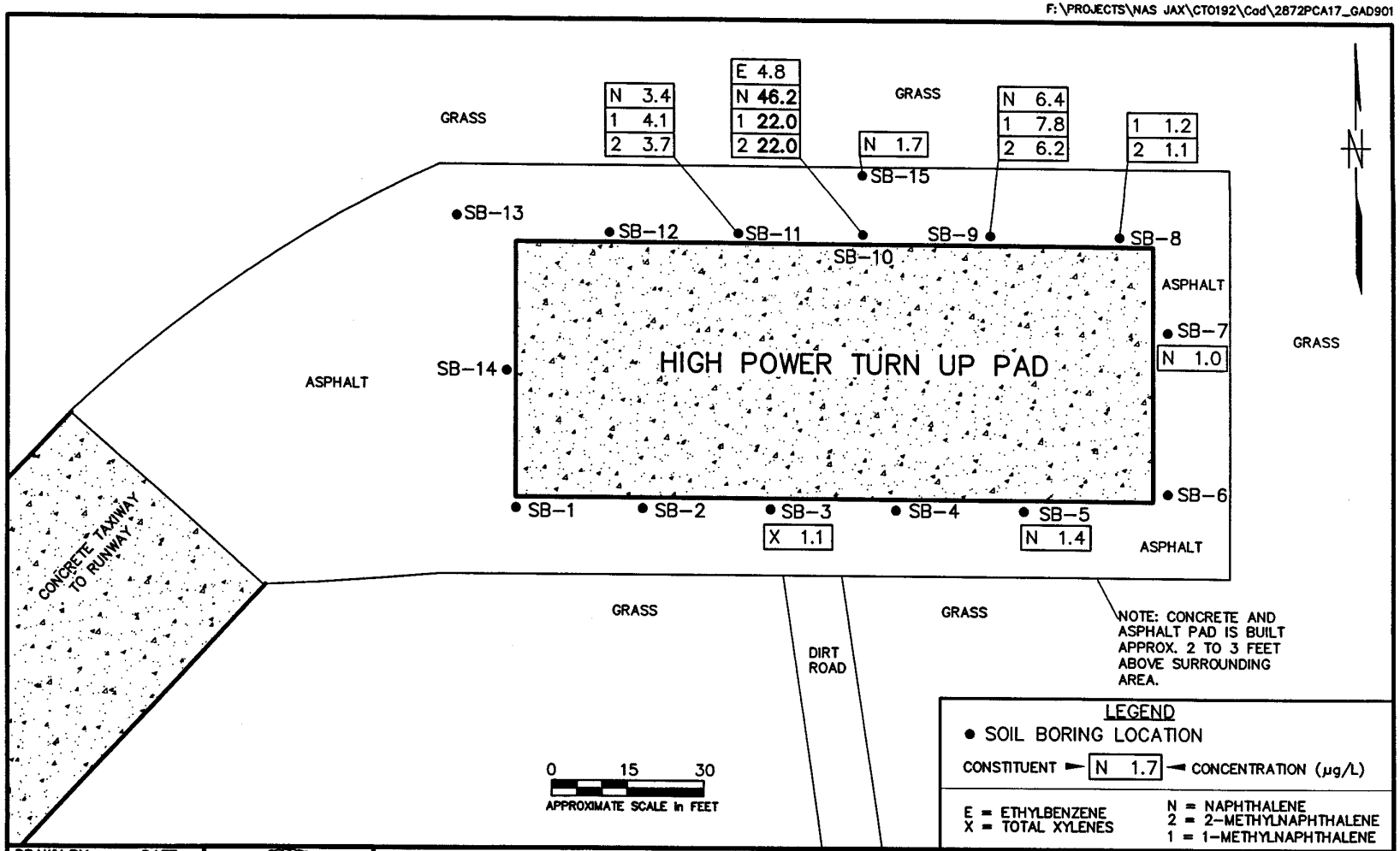
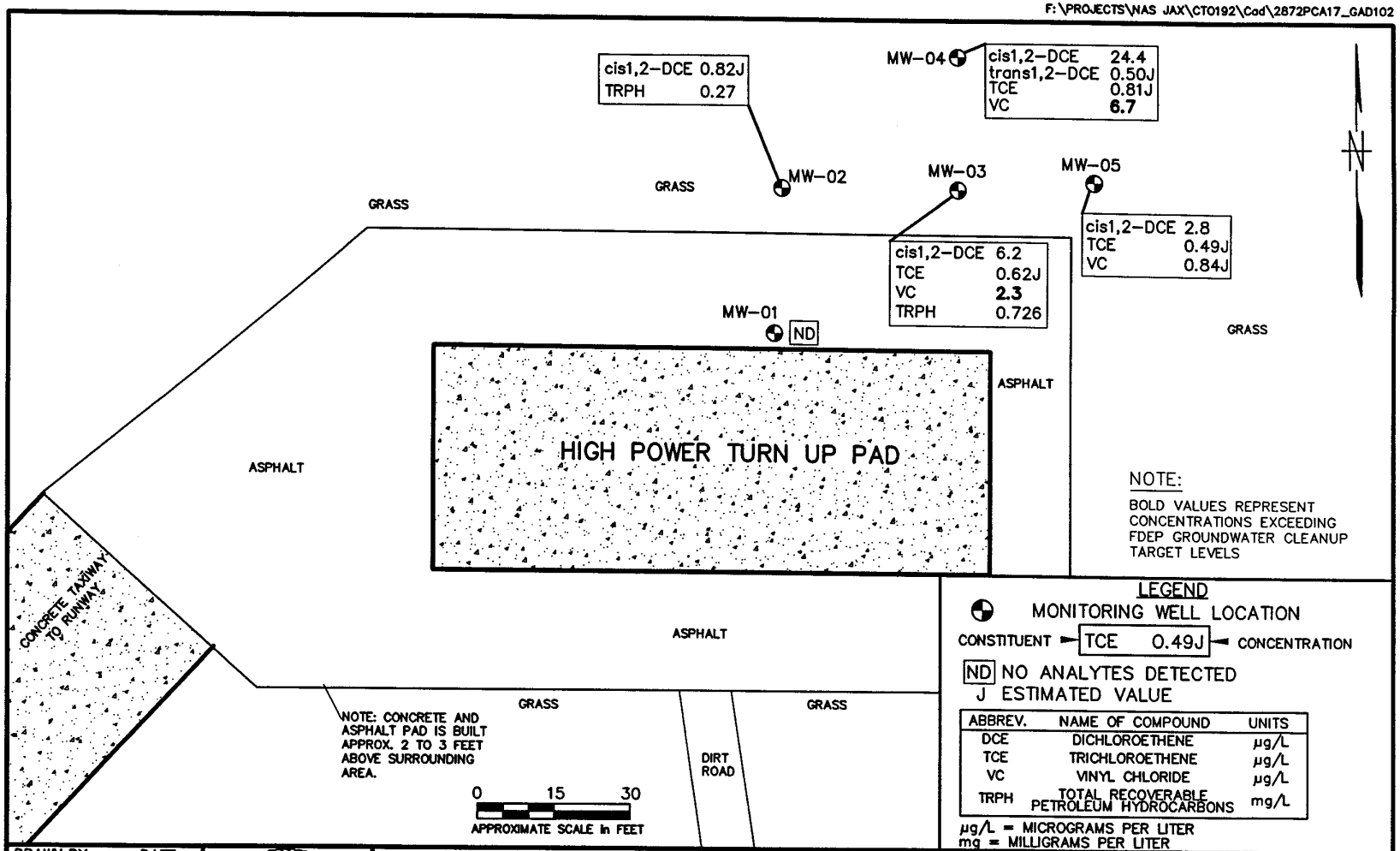


DRAWN BY LLK	DATE 11/10/01	MOBILE LAB GROUNDWATER RESULTS HIGH POWER TURN-UP PAD NAS JACKSONVILLE JACKSONVILLE, FLORIDA	CONTRACT NO. 2872
CHECKED BY	DATE		APPROVED BY DATE
COST/SCHED-AREA			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 6 REV. 0

FORM CADD NO. SDIV_AH.DWG - REV 0 - 1/20/98

F:\PROJECTS\NAS JAX\CTO192\Cad\2872PCA17_GAD102



ABBREV.	NAME OF COMPOUND	UNITS
DCE	DICHLOROETHENE	µg/L
TCE	TRICHLOROETHENE	µg/L
VC	VINYL CHLORIDE	µg/L
TRPH	TOTAL RECOVERABLE PETROLEUM HYDROCARBONS	mg/L

µg/L = MICROGRAMS PER LITER
mg = MILLIGRAMS PER LITER

DRAWN BY LLK	DATE 2/11/02
CHECKED BY	DATE
COST/SCHED-AREA	
SCALE AS NOTED	

ANALYTES DETECTED IN GROUNDWATER
HIGH POWER TURN-UP PAD
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NO.	2872
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	FIGURE 7
REV.	0

FORM CADD NO. SDIV_AH.DWG - REV 0 - 1/20/98

ATTACHMENT A
SOIL BORING LOGS AND WELL COMPLETION LOGS

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Jacksonville, Florida 32256
Phone: (904) 281-0400
Fax: (904) 281-0070

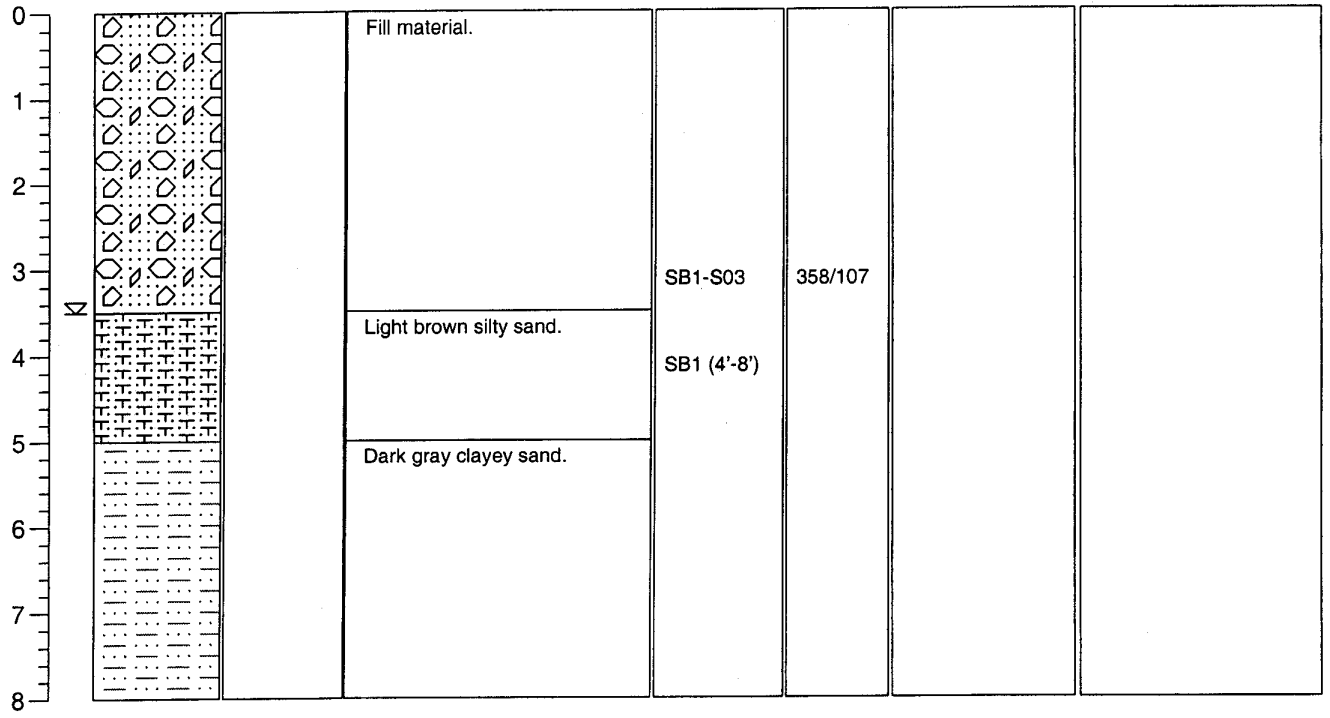
FIELD BOREHOLE LOG

BOREHOLE NO.: **JAX-HPTP-SB-1**
TOTAL DEPTH: **8'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**High Power Turn-up Pad**	DRILLING COMPANY:	**Columbia Technologies**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	**Randy**
JOB NO.:	**CTO 192**	RIG TYPE:	**Geoprobe**
LOGGED BY:	**Joe Ferranti**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAMPLING METHOD:	**Core Samplers**
DATES DRILLED:	**9/29/01**		

NOTES: Low production during groundwater sample.

▽ Water level during drilling
▼ Water level in completed well



DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0-3			Fill material.				
3-4			Light brown silty sand.	SB1-S03 SB1 (4'-8')	358/107		
4-8			Dark gray clayey sand.				

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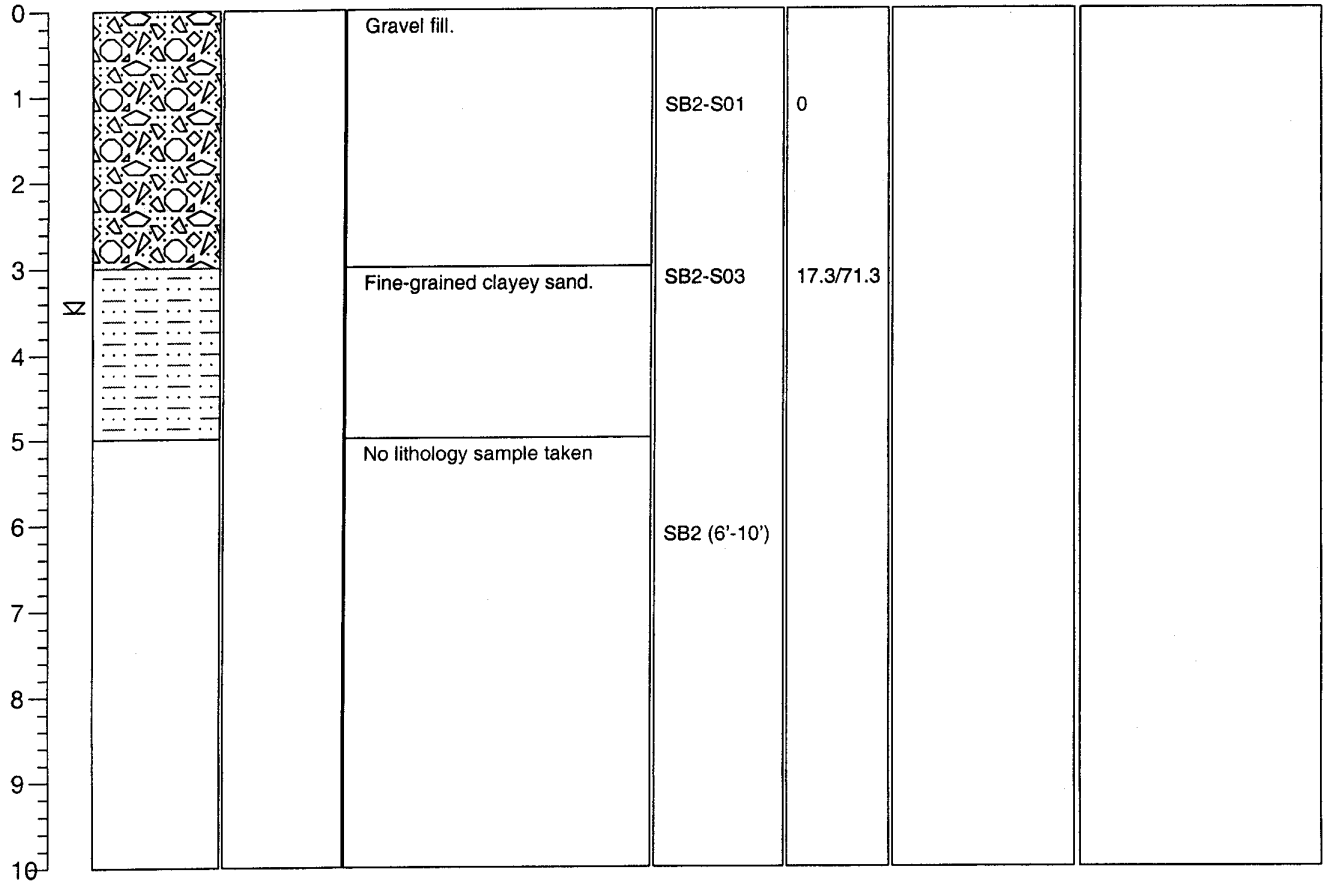
FIELD BOREHOLE LOG

BOREHOLE NO.: **JAX-HPTP-SB-2**
TOTAL DEPTH: **10'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**High Power Turn-up Pad**	DRILLING COMPANY:	**Columbia Technologies**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	**Randy**
JOB NO.:	**CTO 192**	RIG TYPE:	**Geoprobe**
LOGGED BY:	**Joe Ferranti**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAMPLING METHOD:	**Core Samplers**
DATES DRILLED:	**9/29/01**		

NOTES: Gravel fill to 3', no mobile lab sample of fill.

▽ Water level during drilling
▼ Water level in completed well



DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0			Gravel fill.	SB2-S01	0		
3	▽		Fine-grained clayey sand.	SB2-S03	17.3/71.3		
5			No lithology sample taken	SB2 (6'-10')			
10							

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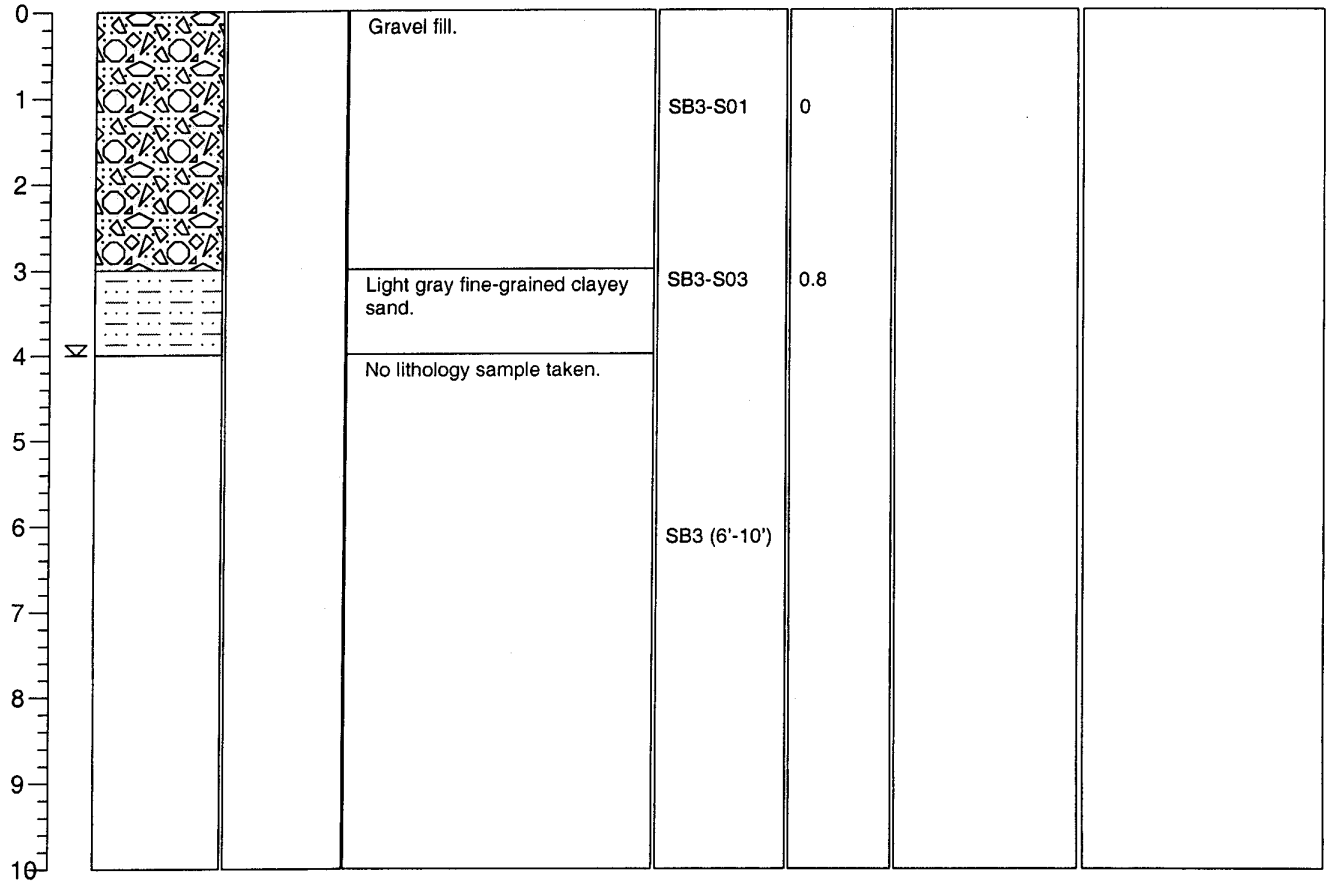
FIELD BOREHOLE LOG

BOREHOLE NO.: **JAX-HPTP-SB-3**
TOTAL DEPTH: **10'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**High Power Turn-up Pad**	DRILLING COMPANY:	**Columbia Technologies**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	**Randy**
JOB NO.:	**CTO 192**	RIG TYPE:	**Geoprobe**
LOGGED BY:	**Joe Ferranti**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAMPLING METHOD:	**Core Samplers**
DATES DRILLED:	**9/29/01**		

NOTES: Gravel fill to 3', no mobile lab sample of fill.

▽ Water level during drilling
▼ Water level in completed well



DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0			Gravel fill.				
1				SB3-S01	0		
2							
3			Light gray fine-grained clayey sand.	SB3-S03	0.8		
4 ▽			No lithology sample taken.				
5							
6				SB3 (6'-10')			
7							
8							
9							
10							

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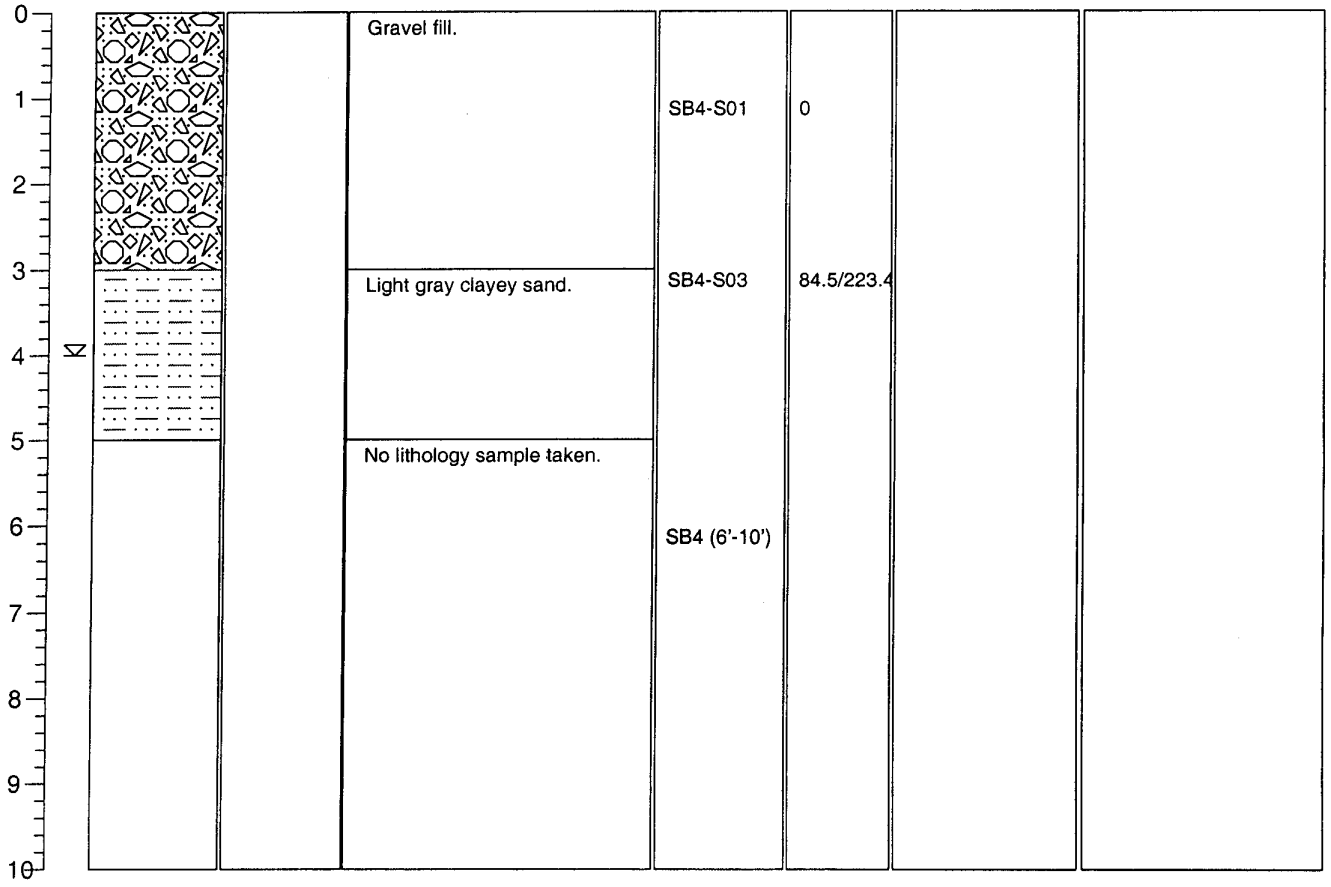
FIELD BOREHOLE LOG

BOREHOLE NO.: **JAX-HPTP-SB-4**
TOTAL DEPTH: **10'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**High Power Turn-up Pad**	DRILLING COMPANY:	**Columbia Technologies**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	**Randy**
JOB NO.:	**CTO 192**	RIG TYPE:	**Geoprobe**
LOGGED BY:	**Joe Ferranti**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAMPLING METHOD:	**Core Samplers**
DATES DRILLED:	**9/29/01**		

NOTES: Gravel fill to 3', no mobile lab sample of fill.

▽ Water level during drilling
▼ Water level in completed well



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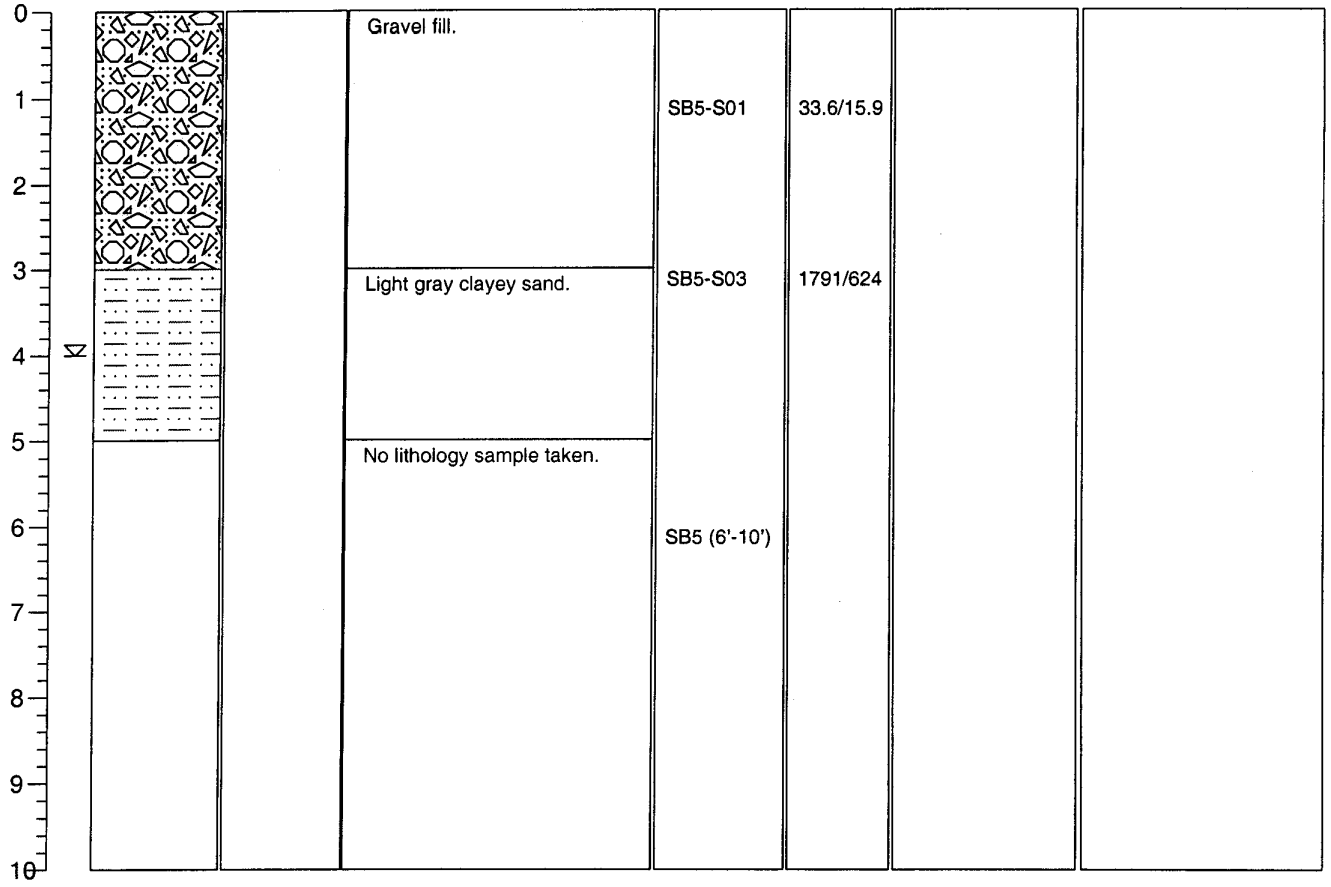
FIELD BOREHOLE LOG

BOREHOLE NO.: **JAX-HPTP-SB-5**
TOTAL DEPTH: **10'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**High Power Turn-up Pad**	DRILLING COMPANY:	**Columbia Technologies**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	**Randy**
JOB NO.:	**CTO 192**	RIG TYPE:	**Geoprobe**
LOGGED BY:	**Joe Ferranti**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAMPLING METHOD:	**Core Samplers**
DATES DRILLED:	**9/29/01**		

NOTES: Gravel fill to 3', no mobile lab sample of fill.

▽ Water level during drilling
▼ Water level in completed well



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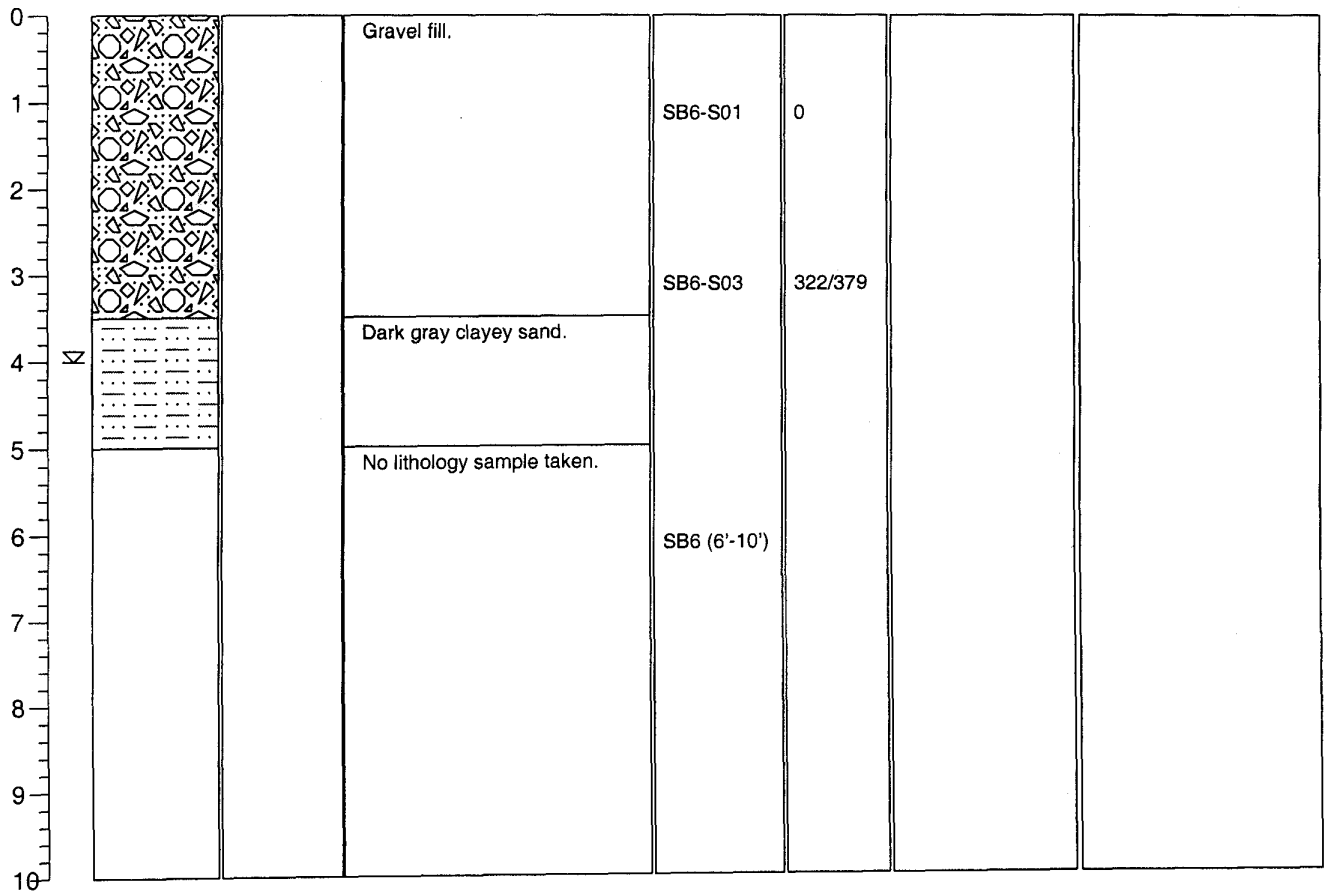
FIELD BOREHOLE LOG

BOREHOLE NO.: **JAX-HPTP-SB-6**
TOTAL DEPTH: **10'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**High Power Turn-up Pad**	DRILLING COMPANY:	**Columbia Technologies**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	**Randy**
JOB NO.:	**CTO 192**	RIG TYPE:	**Geoprobe**
LOGGED BY:	**Joe Ferranti**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAMPLING METHOD:	**Core Samplers**
DATES DRILLED:	**9/29/01**		

NOTES: Gravel fill to 3.5', no mobile lab sample of fill.

▽ Water level during drilling
▼ Water level in completed well



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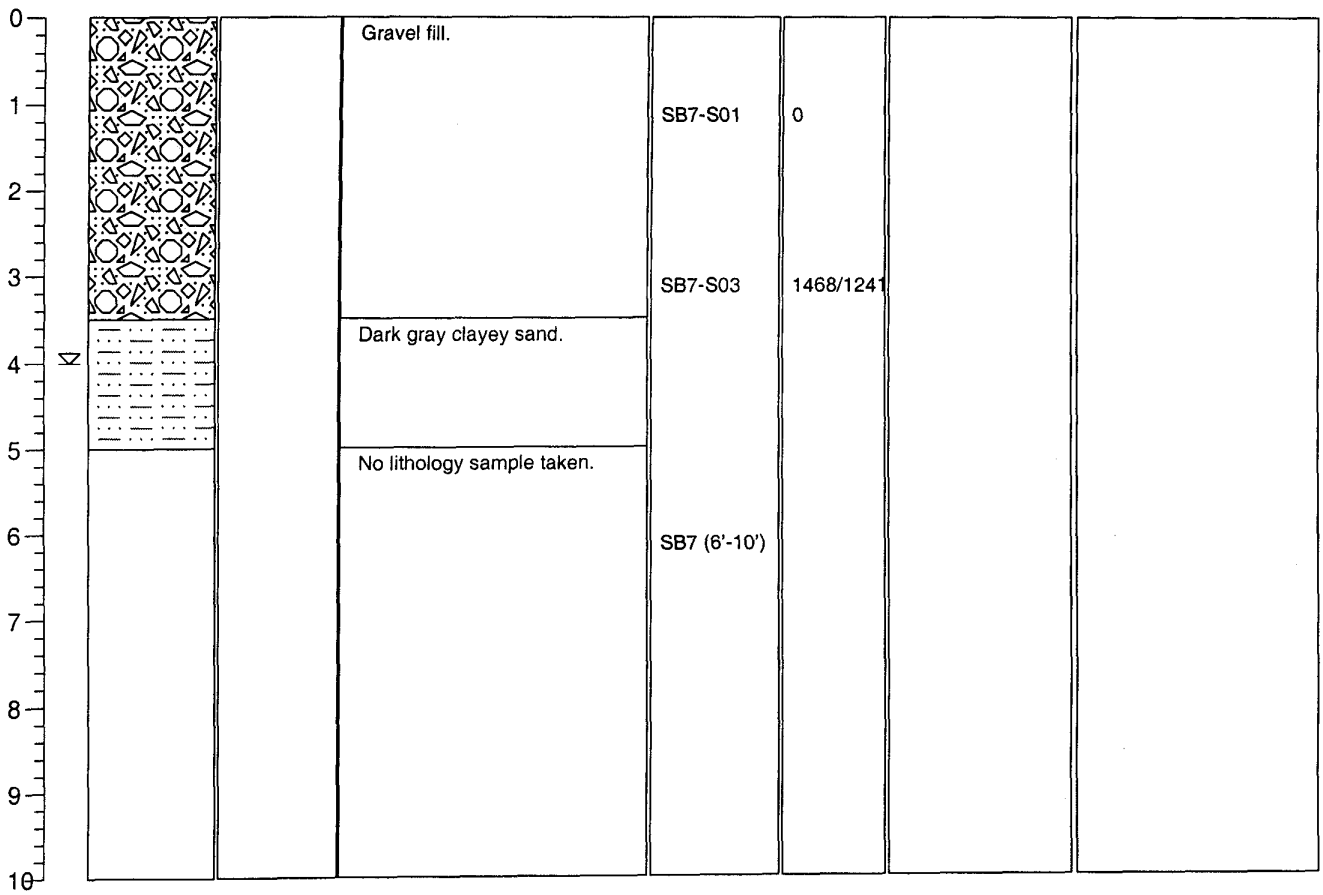
FIELD BOREHOLE LOG

BOREHOLE NO.: **JAX-HPTP-SB-7**
TOTAL DEPTH: **10'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**High Power Turn-up Pad**	DRILLING COMPANY:	**Columbia Technologies**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	**Randy**
JOB NO.:	**CTO 192**	RIG TYPE:	**Geoprobe**
LOGGED BY:	**Joe Ferranti**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAMPLING METHOD:	**Core Samplers**
DATES DRILLED:	**9/29/01**		

NOTES: Gravel fill to 3.5', no mobile lab sample of fill.

▽ Water level during drilling
▼ Water level in completed well



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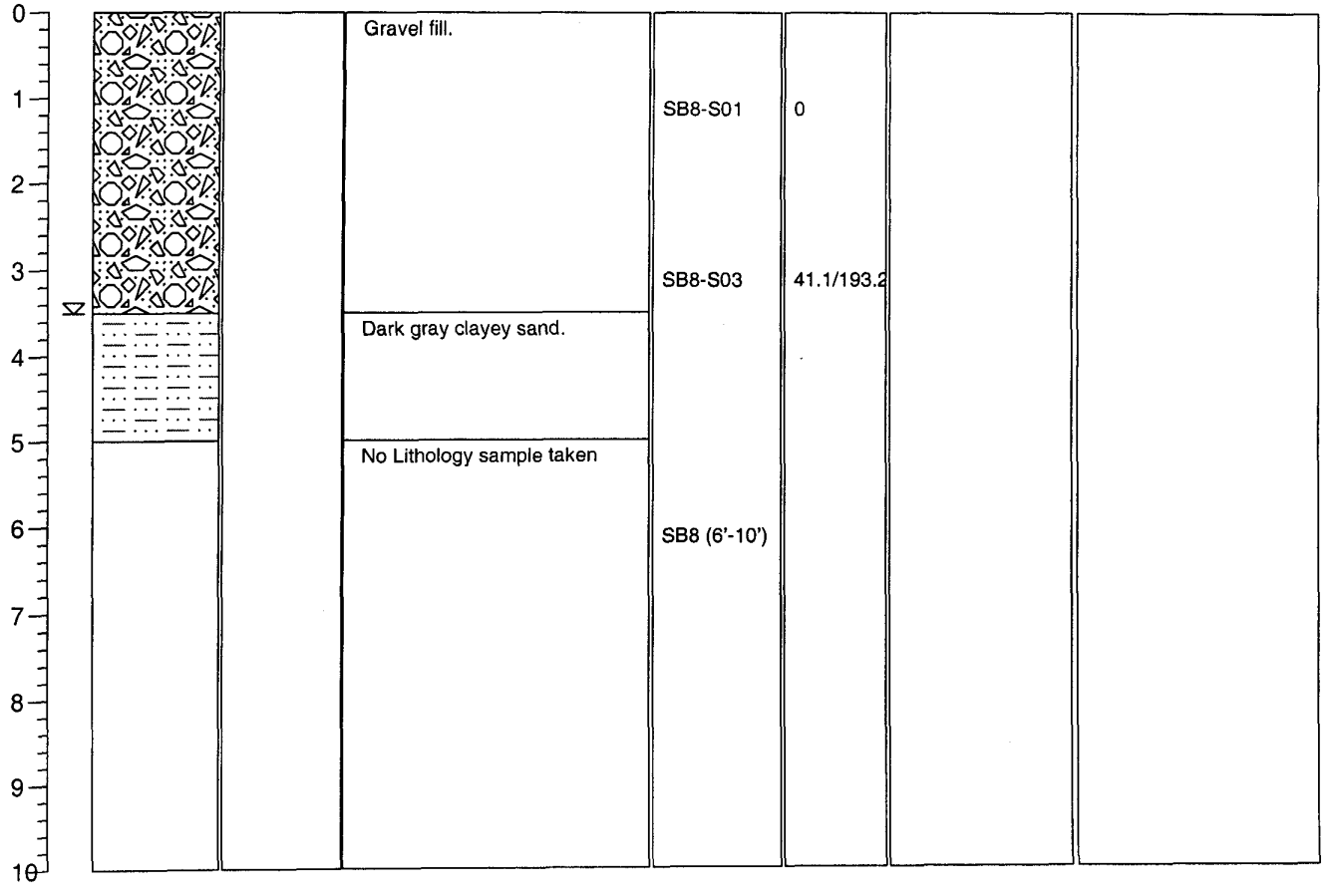
FIELD BOREHOLE LOG

BOREHOLE NO.: **JAX-HPTP-SB-8**
TOTAL DEPTH: **10'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**High Power Turn-up Pad**	DRILLING COMPANY:	**Columbia Technologies**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	**Randy**
JOB NO.:	**CTO 192**	RIG TYPE:	**Geoprobe**
LOGGED BY:	**Joe Ferranti**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAMPLING METHOD:	**Core Samplers**
DATES DRILLED:	**9/29/01**		

NOTES: Gravel fill to 3.5', no mobile lab sample of fill.

⧖ Water level during drilling
⧗ Water level in completed well



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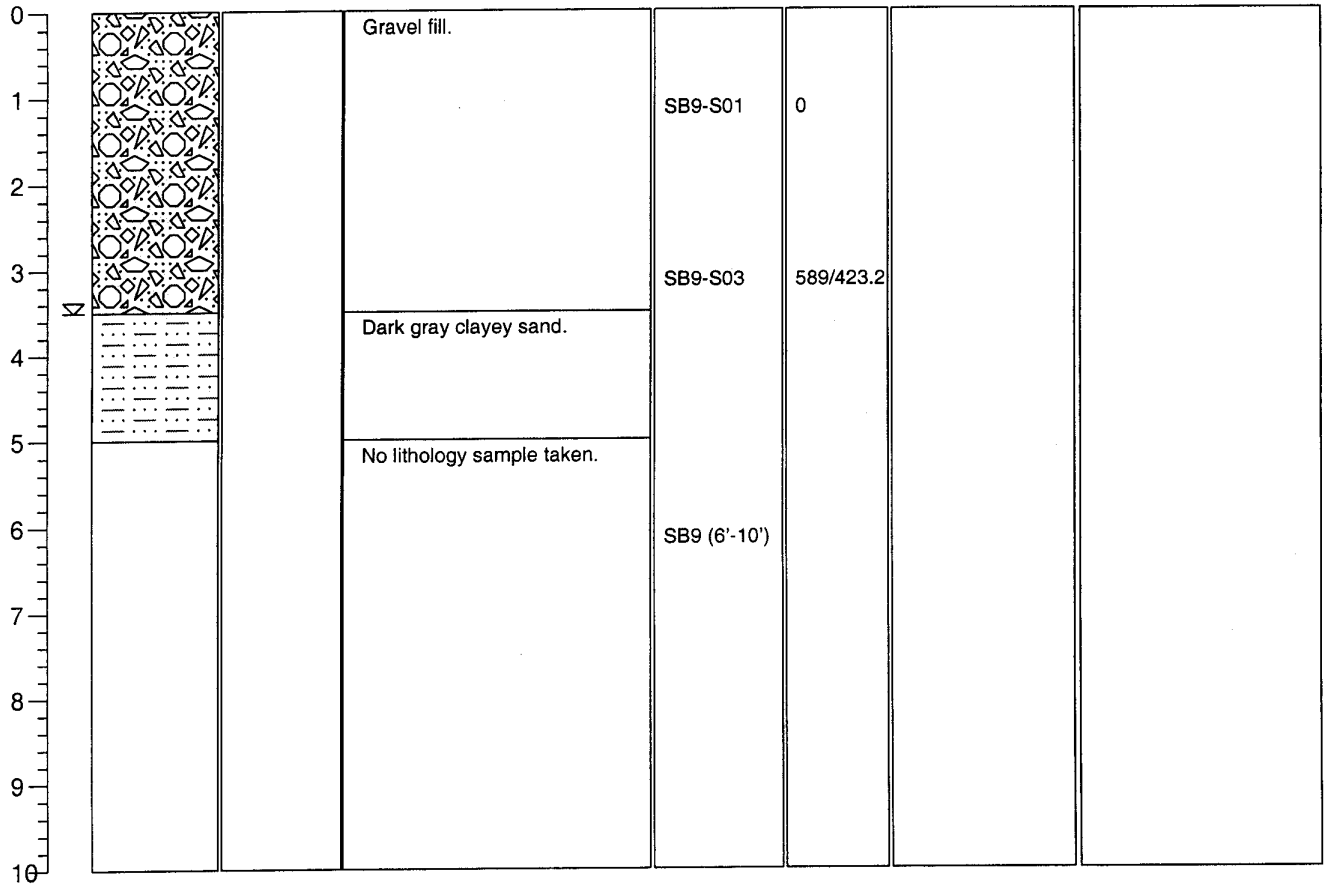
FIELD BOREHOLE LOG

BOREHOLE NO.: **JAX-HPTP-SB-9**
TOTAL DEPTH: **10'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**High Power Turn-up Pad**	DRILLING COMPANY:	**Columbia Technologies**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	**Randy**
JOB NO.:	**CTO 192**	RIG TYPE:	**Geoprobe**
LOGGED BY:	**Joe Ferranti**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAMPLING METHOD:	**Core Samplers**
DATES DRILLED:	**9/29/01**		

NOTES: Gravel fill to 3.5', no mobile lab sample of fill.

▽ Water level during drilling
▼ Water level in completed well



DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION

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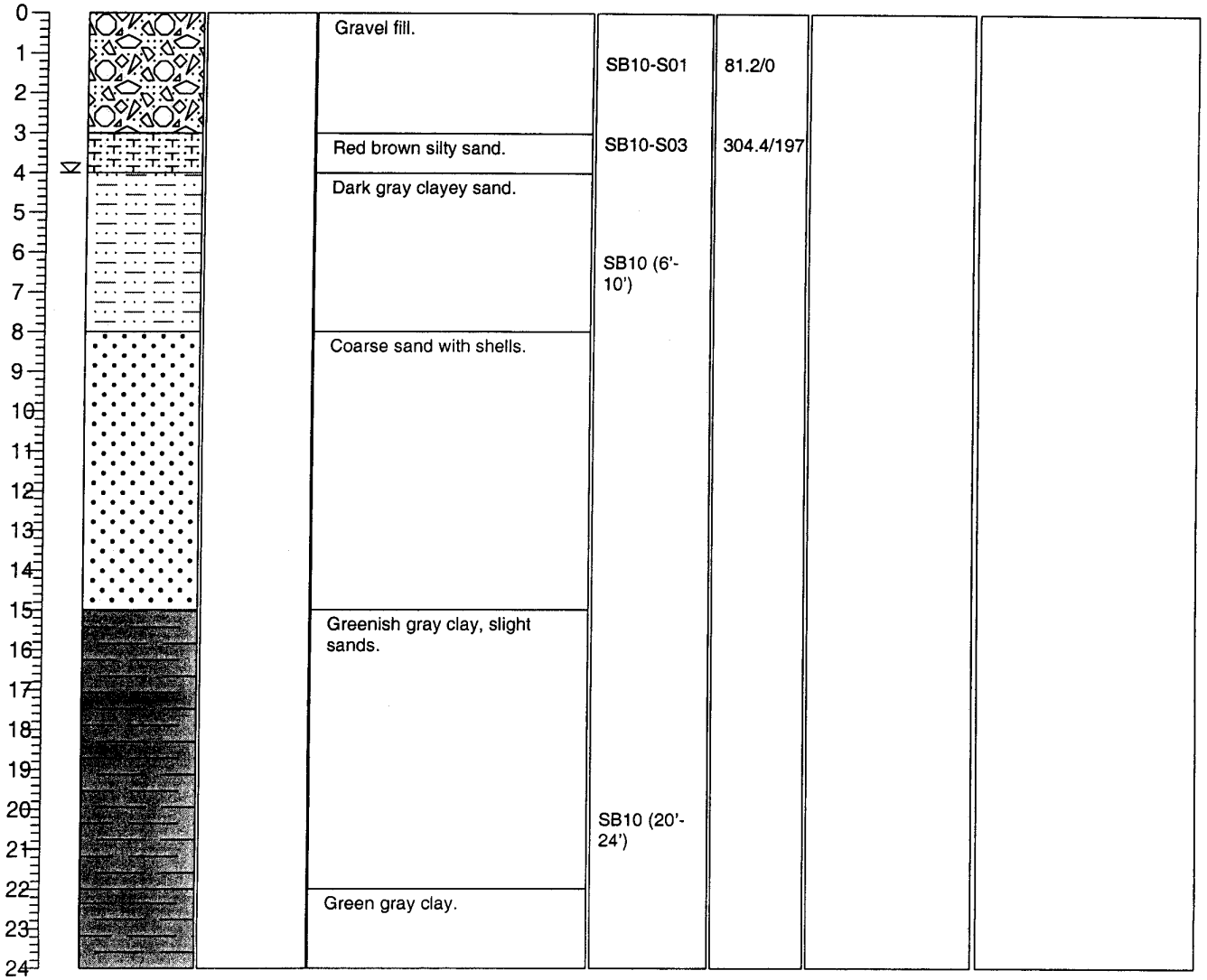
FIELD BOREHOLE LOG

BOREHOLE NO.: **JAX-HPTP-SB-10**
TOTAL DEPTH: **24'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**High Power Turn-up Pad**	DRILLING COMPANY:	**Columbia Technologies**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	**Randy**
JOB NO.:	**CTO 192**	RIG TYPE:	**Geoprobe**
LOGGED BY:	**Joe Ferranti**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAMPLING METHOD:	**Core Samplers**
DATES DRILLED:	**9/29/01 - 9/30/01**		

NOTES: Gravel fill to 3', no mobile lab sample of fill.

▽ Water level during drilling
▼ Water level in completed well



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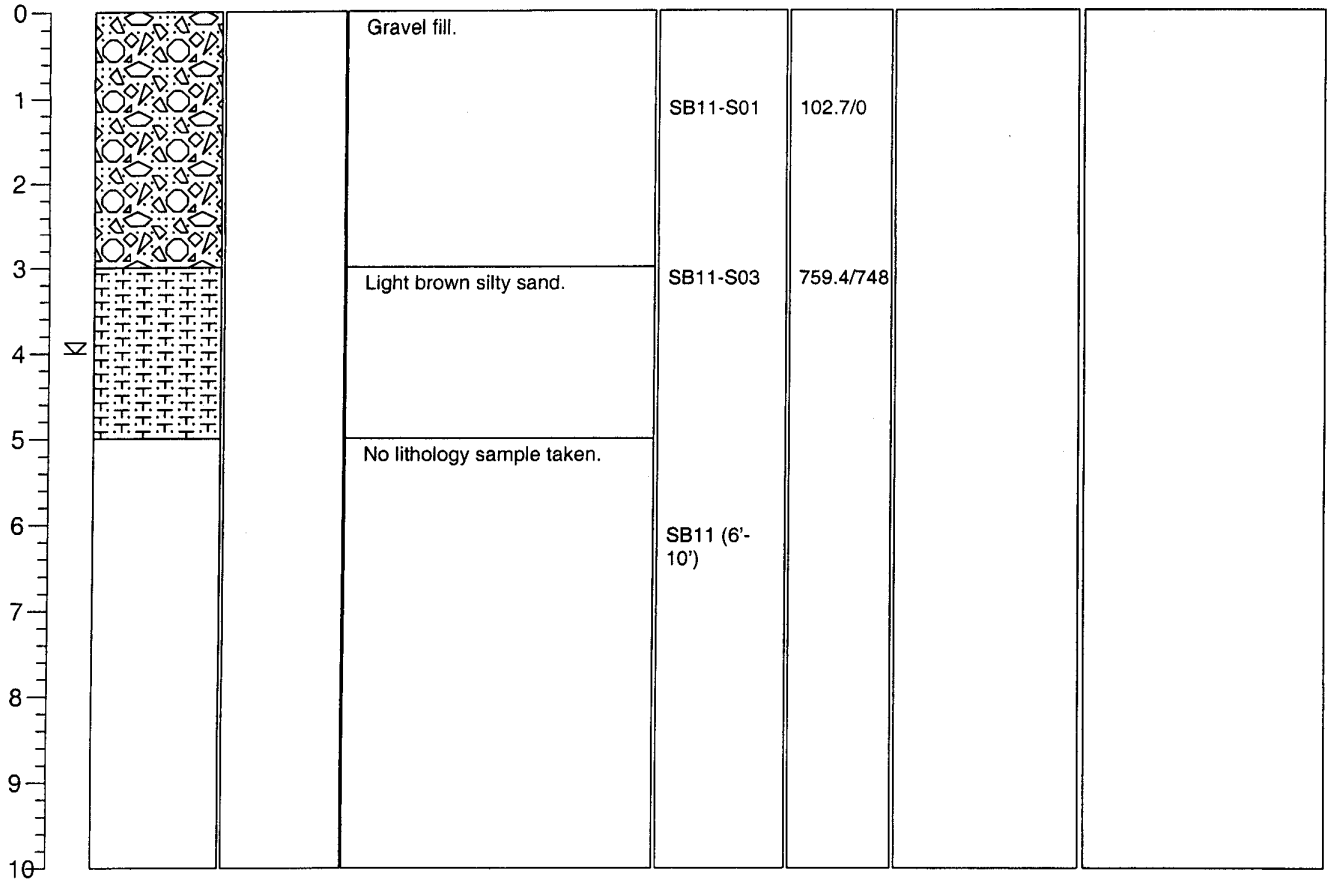
FIELD BOREHOLE LOG

BOREHOLE NO.: **JAX-HPTP-SB-11**
TOTAL DEPTH: **10'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**High Power Turn-up Pad**	DRILLING COMPANY:	**Columbia Technologies**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	**Randy**
JOB NO.:	**CTO 192**	RIG TYPE:	**Geoprobe**
LOGGED BY:	**Joe Ferranti**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAMPLING METHOD:	**Core Samplers**
DATES DRILLED:	**9/29/01**		

NOTES: Gravel fill to 3', no mobile lab sample of fill.

▽ Water level during drilling
▼ Water level in completed well



DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0			Gravel fill.				
1				SB11-S01	102.7/0		
2							
3			Light brown silty sand.	SB11-S03	759.4/748		
4							
5			No lithology sample taken.				
6				SB11 (6'-10')			
7							
8							
9							
10							

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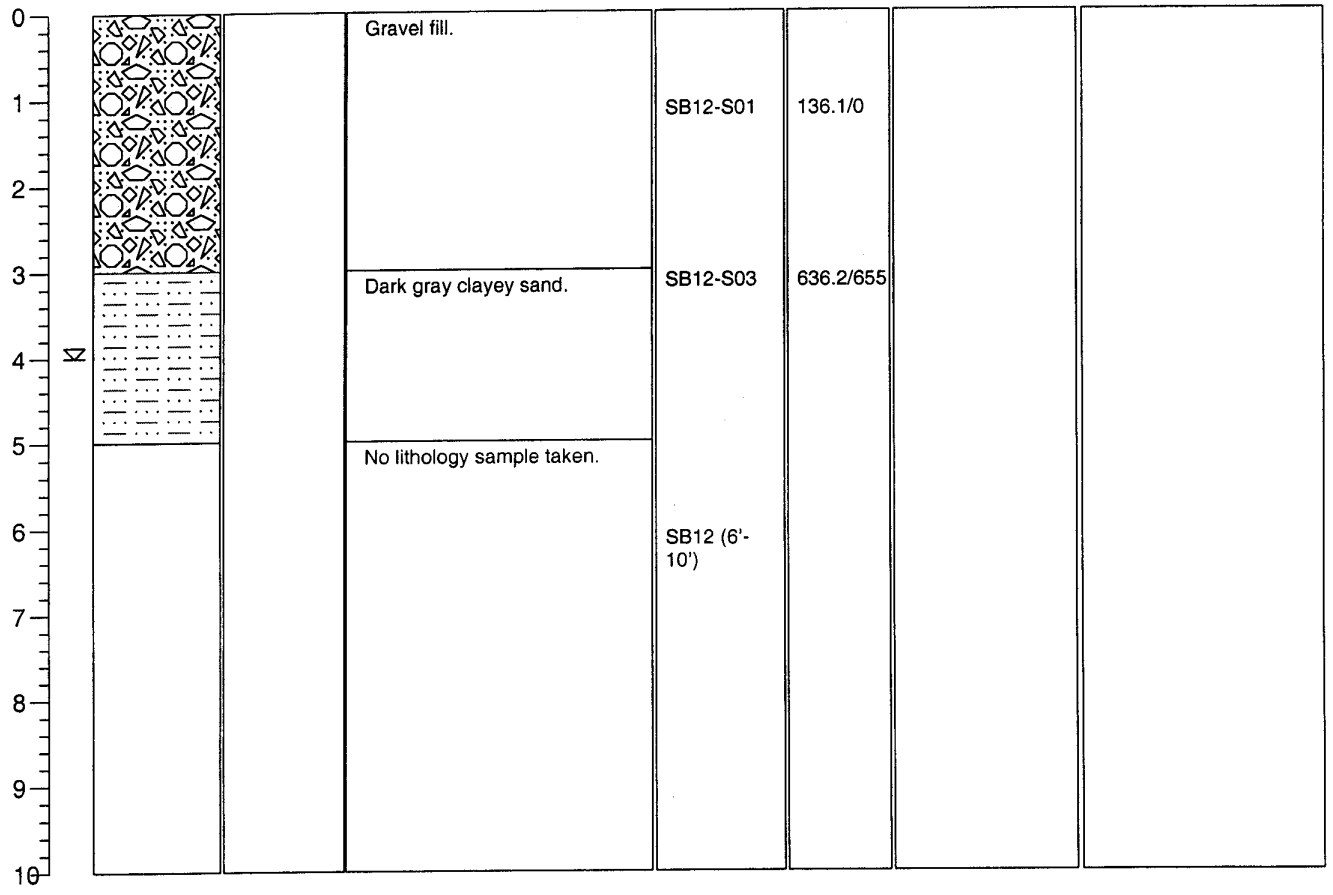
FIELD BOREHOLE LOG

BOREHOLE NO.: **JAX-HPTP-SB-12**
TOTAL DEPTH: **10'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**High Power Turn-up Pad**	DRILLING COMPANY:	**Columbia Technologies**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	**Randy**
JOB NO.:	**CTO 192**	RIG TYPE:	**Geoprobe**
LOGGED BY:	**Joe Ferranti**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAMPLING METHOD:	**Core Samplers**
DATES DRILLED:	**9/29/01**		

NOTES: Gravel fill to 3', no mobile lab sample of fill.

▽ Water level during drilling
▼ Water level in completed well



DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0			Gravel fill.	SB12-S01	136.1/0		
3			Dark gray clayey sand.	SB12-S03	636.2/655		
5			No lithology sample taken.	SB12 (6'-10')			
10							

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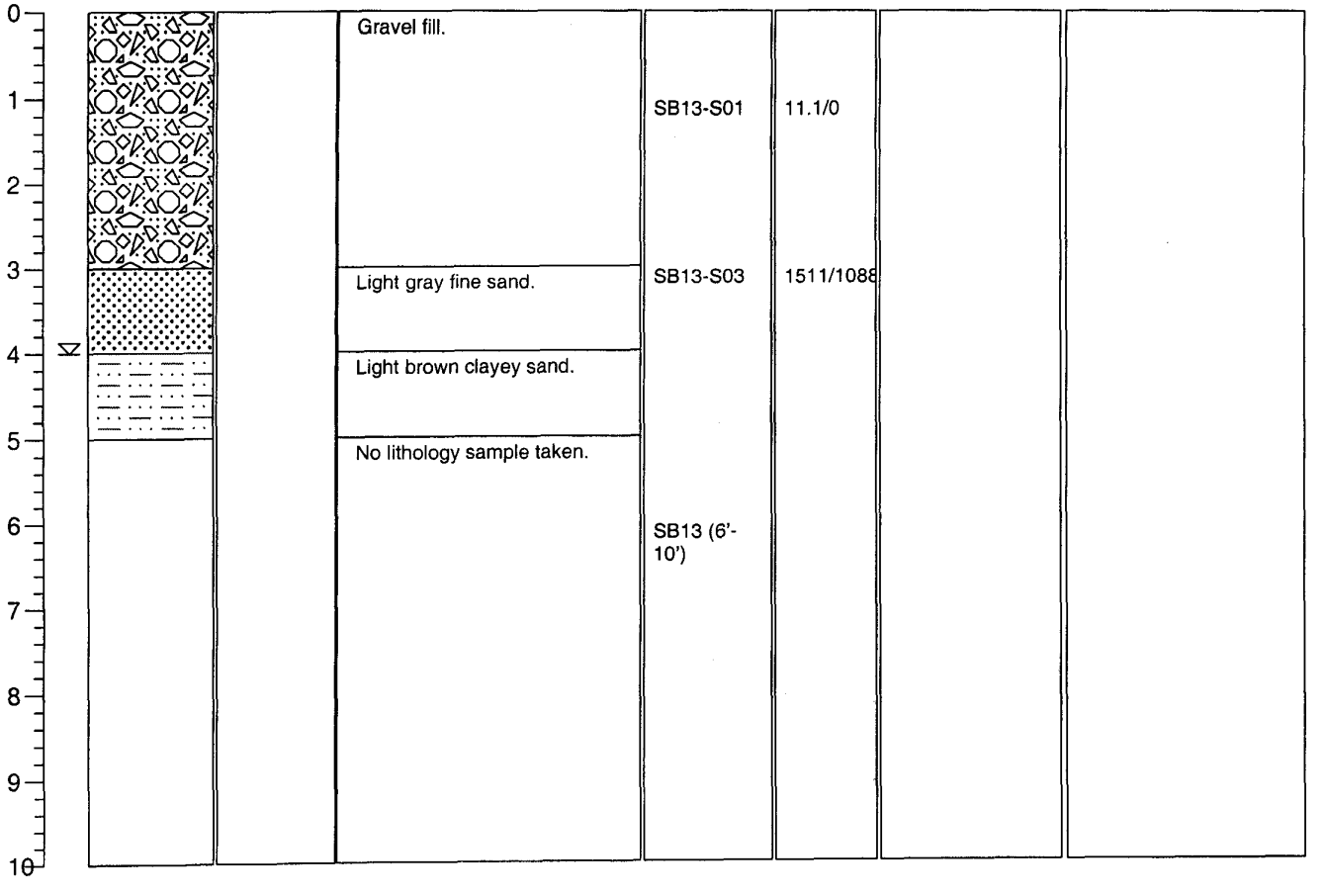
FIELD BOREHOLE LOG

BOREHOLE NO.: **JAX-HPTP-SB-13**
TOTAL DEPTH: **10'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**High Power Turn-up Pad**	DRILLING COMPANY:	**Columbia Technologies**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	**Randy**
JOB NO.:	**CTO 192**	RIG TYPE:	**Geoprobe**
LOGGED BY:	**Joe Ferranti**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAMPLING METHOD:	**Core Samplers**
DATES DRILLED:	**9/29/01**		

NOTES: Gravel fill to 3', no mobile lab sample of fill.

▽ Water level during drilling
▼ Water level in completed well



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7018 AC Skinner Pkwy, Suite 250
Jacksonville, Florida 32256
Phone: (904) 281-0400
Fax: (904) 281-0070

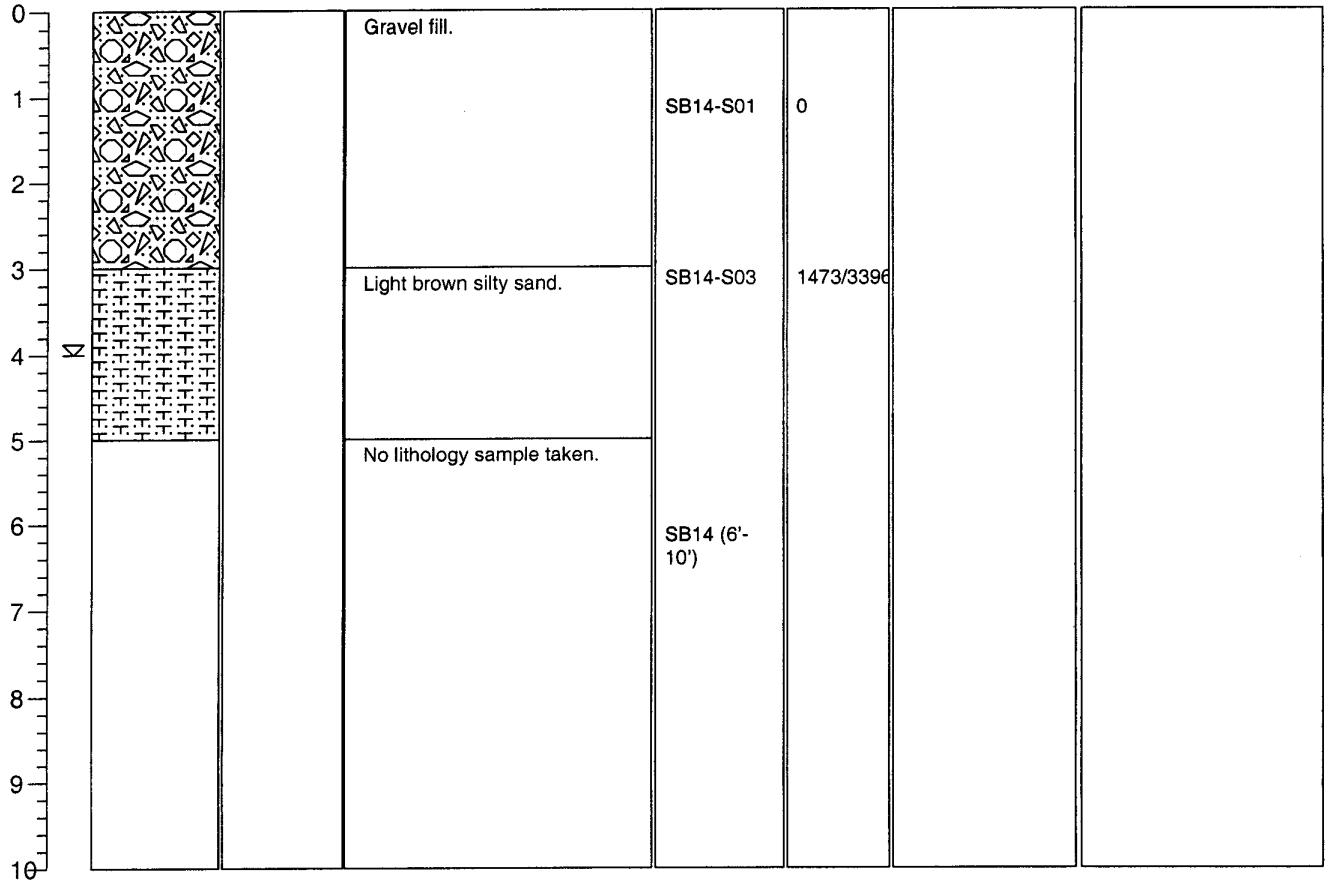
FIELD BOREHOLE LOG

BOREHOLE NO.: **JAX-HPTP-SB-14**
TOTAL DEPTH: **10'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**High Power Turn-up Pad**	DRILLING COMPANY:	**Columbia Technologies**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	**Randy**
JOB NO.:	**CTO 192**	RIG TYPE:	**Geoprobe**
LOGGED BY:	**Joe Ferranti**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAMPLING METHOD:	**Core Samplers**
DATES DRILLED:	**9/29/01**		

NOTES: Gravel fill to 3', no mobile lab sample of fill.

▽ Water level during drilling
▼ Water level in completed well



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Fax: (904) 281-0070

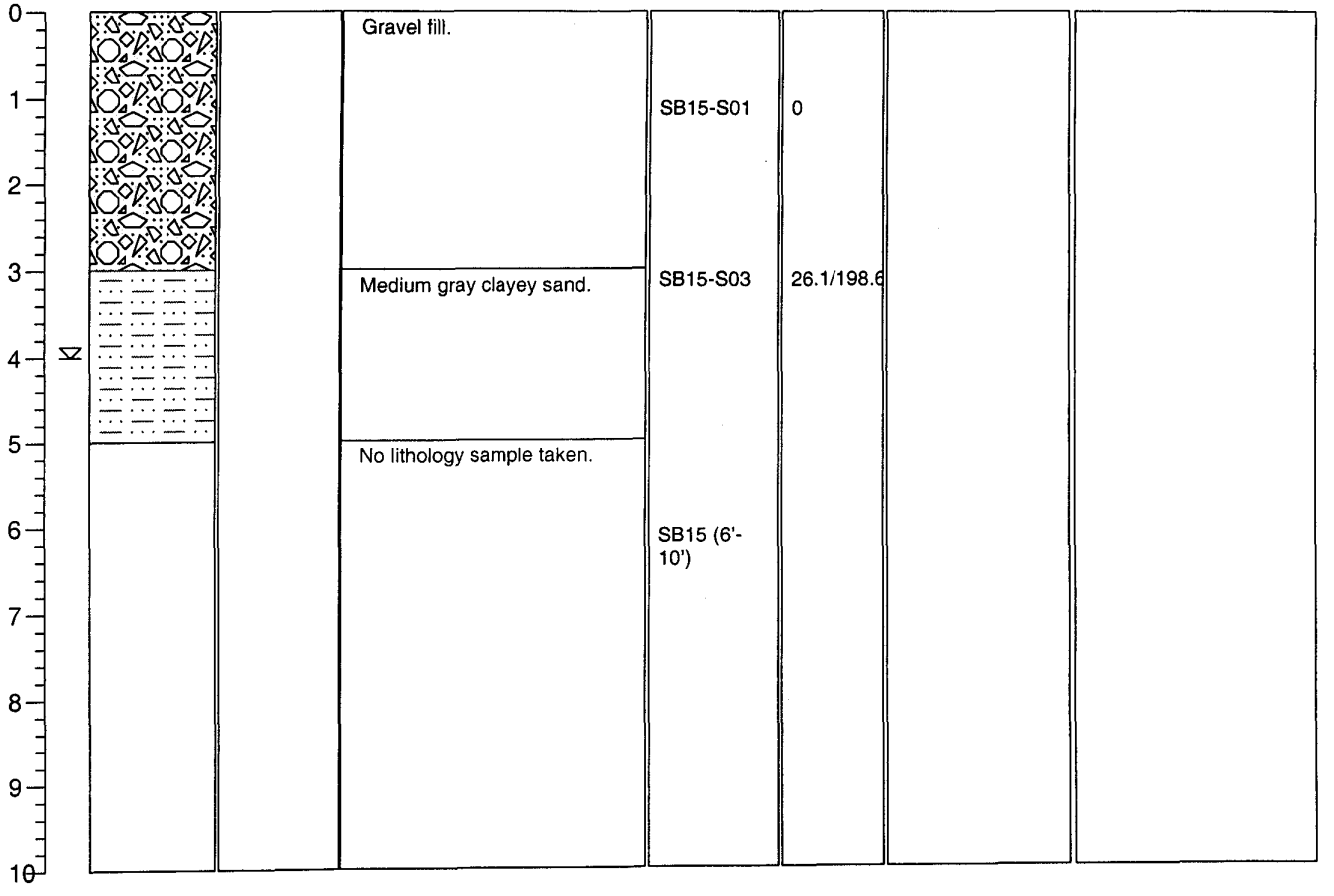
FIELD BOREHOLE LOG

BOREHOLE NO.: **JAX-HPTP-SB-15**
TOTAL DEPTH: **10'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**High Power Turn-up Pad**	DRILLING COMPANY:	**Columbia Technologies**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	**Randy**
JOB NO.:	**CTO 192**	RIG TYPE:	**Geoprobe**
LOGGED BY:	**Joe Ferranti**	DRILLING METHOD:	**DPT**
PROJECT MANAGER:	**Greg Roof**	SAMPLING METHOD:	**Core Samplers**
DATES DRILLED:	**9/30/01**		

NOTES: Gravel fill to 3', no mobile lab sample of fill.

▽ Water level during drilling
▼ Water level in completed well



DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0			Gravel fill.	SB15-S01	0		
3			Medium gray clayey sand.	SB15-S03	26.1/198.6		
5			No lithology sample taken.	SB15 (6'-10')			
10							

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FIELD BOREHOLE LOG

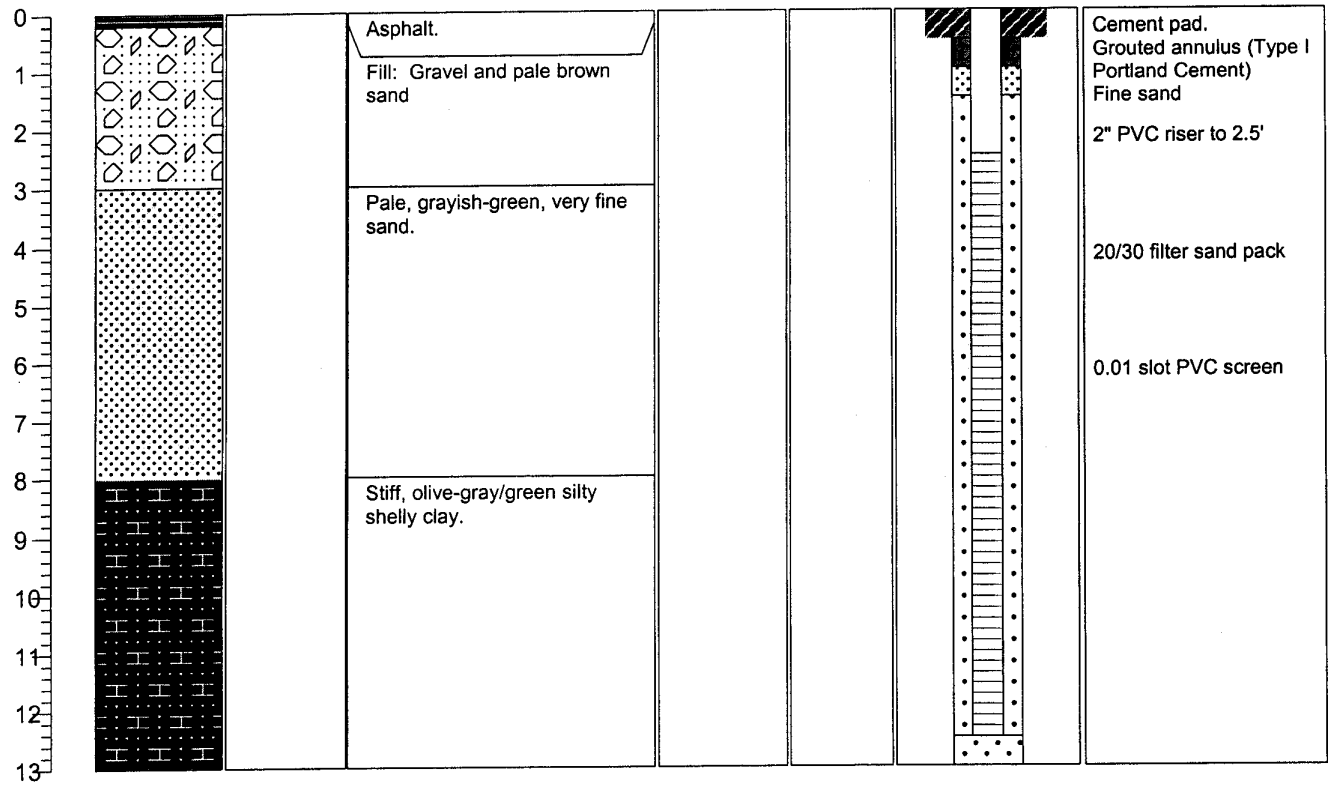
BOREHOLE NO.: **JAX-17-MW-1**
TOTAL DEPTH: **13'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**High Power Turn-up Pad**	DRILLING COMPANY:	**ATI**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	**Lewis Johnson**
JOB NO.:	**CTO 192**	RIG TYPE:	
LOGGED BY:	**Louis Knight**	DRILLING METHOD:	**HSA**
PROJECT MANAGER:	**Greg Roof**	SAMPLING METHOD:	
DATES DRILLED:	**10/19/01**		

NOTES: Monitoring well installation

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0–13			Asphalt. Fill: Gravel and pale brown sand Pale, grayish-green, very fine sand. Stiff, olive-gray/green silty shelly clay.				Cement pad. Grouted annulus (Type I Portland Cement) Fine sand 2" PVC riser to 2.5' 20/30 filter sand pack 0.01 slot PVC screen



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Jacksonville, Florida 32256
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FIELD BOREHOLE LOG

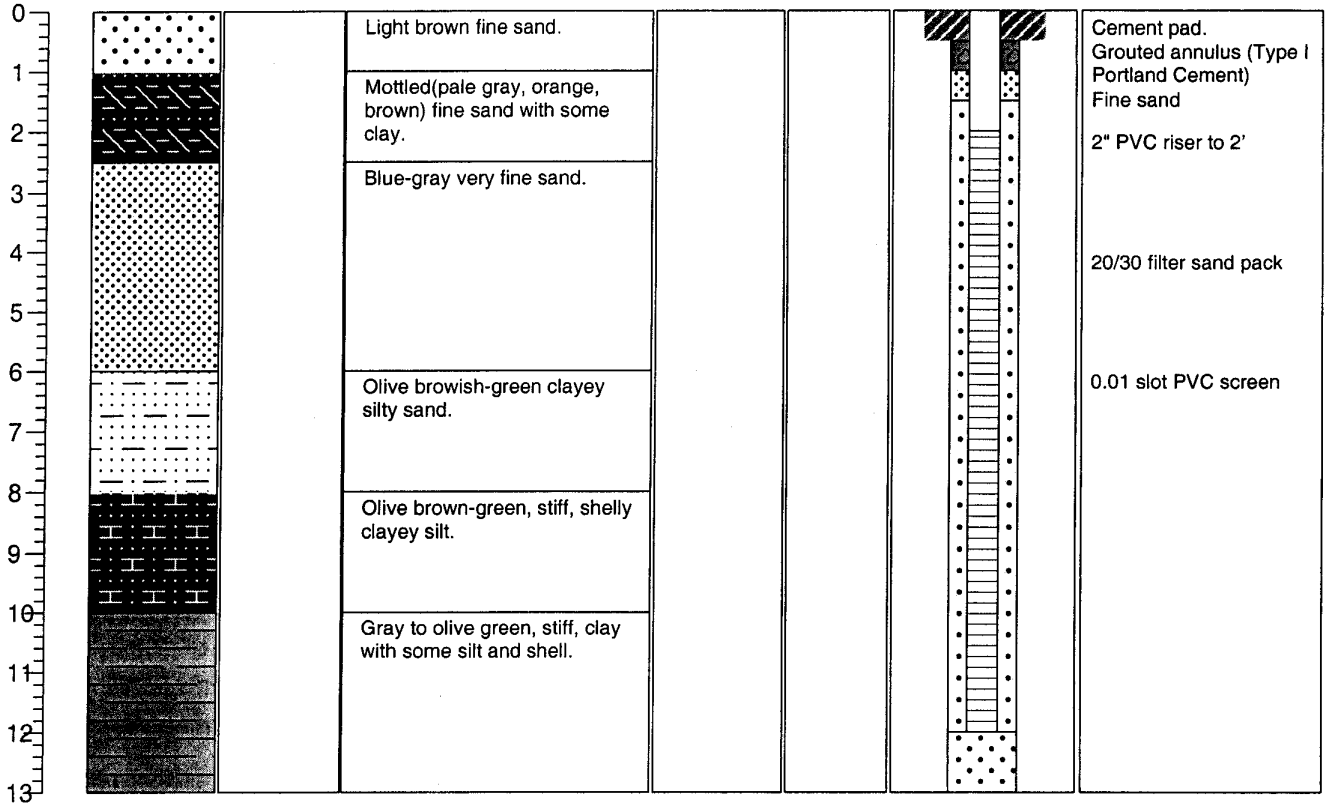
BOREHOLE NO.: **JAX-17-MW-2**
TOTAL DEPTH: **13'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**High Power Turn-up Pad**	DRILLING COMPANY:	**ATI**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	**Lewis Johnson**
JOB NO.:	**CTO 192**	RIG TYPE:	
LOGGED BY:	**Louis Knight**	DRILLING METHOD:	**HSA**
PROJECT MANAGER:	**Greg Roof**	SAMPLING METHOD:	
DATES DRILLED:	**10/19/01**		

NOTES: Monitoring well installation

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0–1			Light brown fine sand.				Cement pad.
1–2			Mottled(pale gray, orange, brown) fine sand with some clay.				Grouted annulus (Type I Portland Cement) Fine sand
2–3			Blue-gray very fine sand.				2" PVC riser to 2'
3–4							
4–5							20/30 filter sand pack
5–6							
6–7			Olive browish-green clayey silty sand.				0.01 slot PVC screen
7–8							
8–9			Olive brown-green, stiff, shelly clayey silt.				
9–10							
10–11			Gray to olive green, stiff, clay with some silt and shell.				
11–12							
12–13							



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Fax: (904) 281-0070

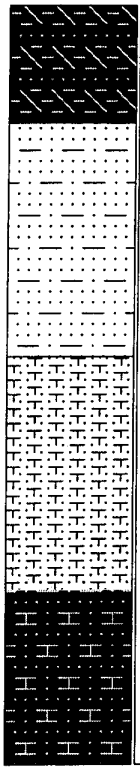
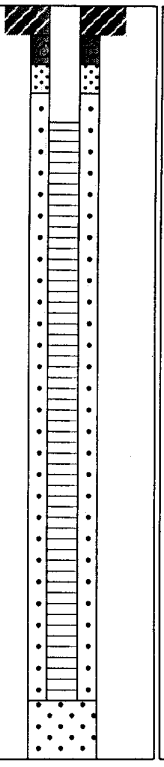
FIELD BOREHOLE LOG

BOREHOLE NO.: **JAX-17-MW-3**
TOTAL DEPTH: **13'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**High Power Turn-up Pad**	DRILLING COMPANY:	**ATI**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	**Lewis Johnson**
JOB NO.:	**CTO 192**	RIG TYPE:	
LOGGED BY:	**Louis Knight**	DRILLING METHOD:	**HSA**
PROJECT MANAGER:	**Greg Roof**	SAMPLING METHOD:	
DATES DRILLED:	**10/19/01**		

NOTES: Monitoring well installation

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0–13			Mottled(pale gray, orange, brown) fine sand with some clay. Blue-gray silty clayey sand. (Becoming light yellow brown at 5') Pale, greenish-brown, very fine silty sand. Olive brown-green, gummy, clayey silt.				Cement pad. Grouted annulus (Type I Portland Cement) Fine sand 2" PVC riser to 2' 20/30 filter sand pack 0.01 slot PVC screen

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FIELD BOREHOLE LOG

BOREHOLE NO.: **JAX-17-MW-4**
TOTAL DEPTH: **12'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**High Power Turn-up Pad**	DRILLING COMPANY:	**TransAmerican**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	**Lyle Bohn**
JOB NO.:	**CTO 192**	RIG TYPE:	**Diedrich D120**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**HSA**
PROJECT MANAGER:	**Greg Roof**	SAMPLING METHOD:	
DATES DRILLED:	**12/28/01**		

NOTES: Monitoring well installation

▽ Water level during drilling
▼ Water level in completed well

DEPTH	SOIL SYMBOL	USCS	SOIL DESCRIPTION	SAMP.#	FID (ppm)	WELL COMPLETION	WELL DESCRIPTION
0–12			Light gray medium to fine sandy clay. (0–4) Light brown medium to fine sandy clay. (4–9) Medium gray thick clayey sand. (9–12)				Cement pad. Grouted annulus (Type I Portland Cement) 30/65 fine sand seal 2" PVC riser to 2' 20/30 filter sand pack 0.01 slot PVC screen

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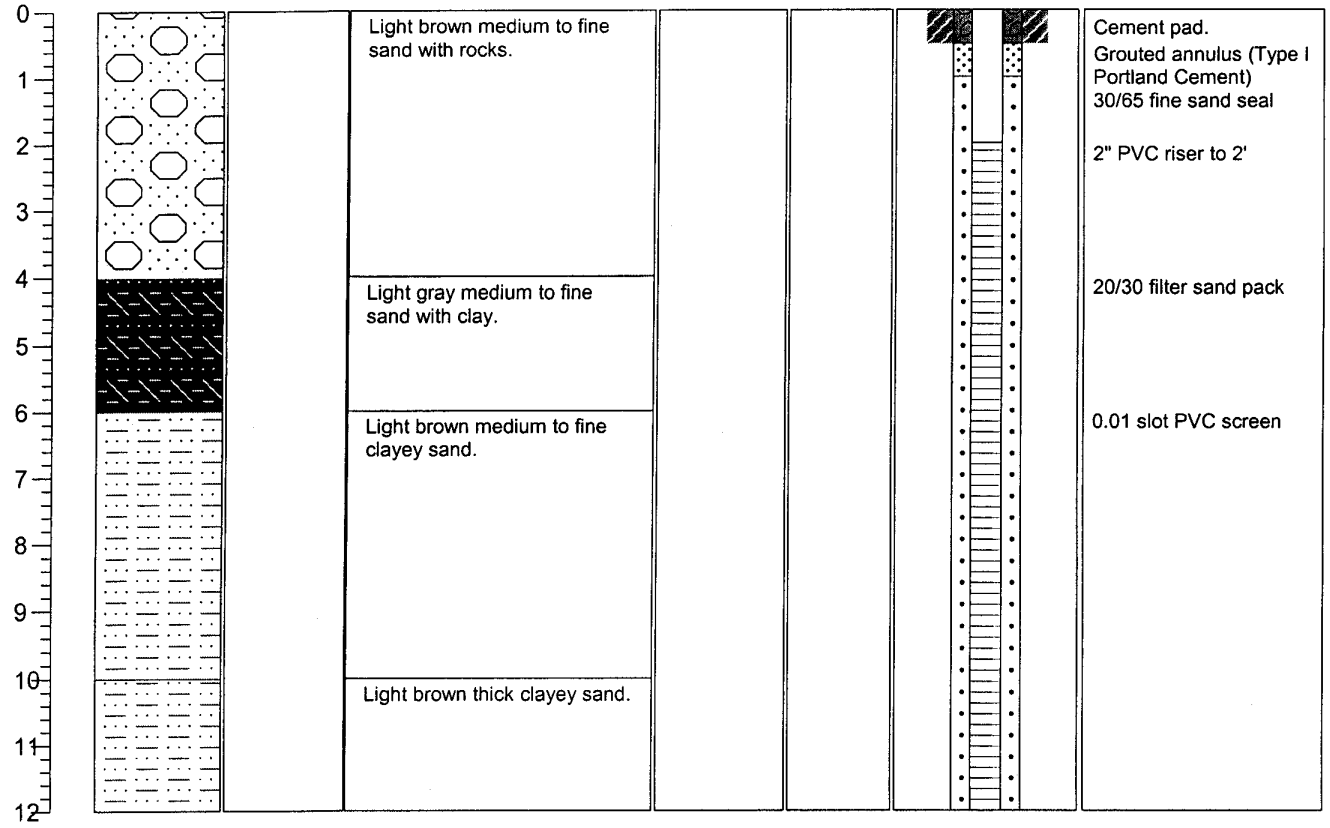
FIELD BOREHOLE LOG

BOREHOLE NO.: **JAX-17-MW-5**
TOTAL DEPTH: **12'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**High Power Turn-up Pad**	DRILLING COMPANY:	**TransAmerican**
SITE LOCATION:	**NAS Jacksonville**	DRILLER:	**Lyle Bohn**
JOB NO.:	**CTO 192**	RIG TYPE:	**Diedrich D120**
LOGGED BY:	**Alan Pate**	DRILLING METHOD:	**HSA**
PROJECT MANAGER:	**Greg Roof**	SAMPLING METHOD:	
DATES DRILLED:	**12/28/01**		

NOTES: Monitoring well installation

⧖ Water level during drilling
⧗ Water level in completed well

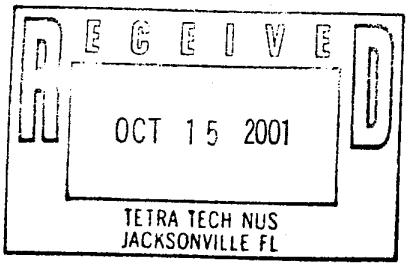


ATTACHMENT B
MOBILE LAB ANALYTICAL RESULTS

KB LABS, INC.
6821 Southwest Archer Road
Gainesville, Florida 32608

telephone (352) 367-0073
fax (352) 367-0074
e-mail kblabs@gator.net

October 11, 2001



Greg Roof
Tetra Tech NUS
7018 A.C. Skinner Parkway, Suite 250
Jacksonville, FL 32256

RE: NAS Jacksonville
PSC 51 and High Power Turn-up Pad
Jacksonville, Florida

Dear Mr. Roof:

Enclosed is the final report of the on-site analysis performed by KB Labs, Inc. at the above referenced site. Samples were collected and analyzed September 25 through October 1, 2001. Included are a brief project narrative, a data report narrative, tables listing quality control results, the final analytical results, and sample chain-of-custody forms. This information will also be sent electronically.

KB Labs is approved as a mobile laboratory for volatiles analyses and operates under an FDEP approved Comprehensive Quality Assurance Plan (CompQAP #980029 Revision 3). Unless otherwise stated in our CompQAP under method modifications, all data for the site referenced above were determined in accordance with published procedures under Test Methods for Evaluating Solid Waste (EPA SW-846, Update III Revised May 1997). Unless otherwise indicated on the quality control narrative accompanying the data report, the quality assurance and quality control procedures performed in conjunction with analysis of groundwater samples demonstrated that the reported data met our CompQAP requirements for accuracy and precision.

If you have any questions, please do not hesitate to call me or Todd Romero, Director of Operations, at (352) 367-0073.

Sincerely,

KB Labs, Inc.

Chris Horrell
Data Specialist

"KB Labs is a small, woman-owned business enterprise."

4.8-CTO 100 mw Cap
4.7-CTO 192

KB LABS, INC.

PROJECT NARRATIVE

Client:	Tetra Tech NUS (TtNUS)	**Driller/Sampler:**	TtNUS	**Analyst:**	Yael Hoogland
Site:	NAS Jax	**KB Labs Project Manager:**	Kelly Bergdoll	**KB Labs Project #:**	
Onsite Dates:	09/25/01-10/01/01	**Client Project Manager:**	Greg Roof	**Matrix:**	Water and soil

Project Scope

From September 25 through October 1, 2001, a total of ninety-seven (97) water samples and fifteen (15) soil samples were collected at the Naval Air Station (NAS) in Jacksonville, FL. The samples were collected from two sites: sixteen (16) water samples and fifteen (15) soil samples were collected from the High Power Turn-up Pad site and eighty-one (81) water samples were collected from the PSC 51 site. Samples from High Power Turn-up Pad were analyzed for MTBE, benzene, toluene, ethylbenzene, xylenes, naphthalene, 1-methylnaphthalene, and 2-metylnaphthalene. Samples from PSC51 were analyzed for vinyl chloride, cis- and trans-1,2-dichloroethene, benzene, trichloroethene, toluene, ethylbenzene, xylenes and naphthalene.

Analytical Procedure

All water samples were analyzed using SW846 Method 5030/8260 for waters. Ten (10) milliliters (mL) of water were purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium and the components were separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

All soil samples were analyzed using SW846 Method 5030/8260 for soils. One (1) gram (g) of soil sample was added to 10 mL of laboratory reagent water purged with helium and the volatile organic compounds (VOCs) were collected on a solid-phase adsorption trap. The adsorption trap was heated and back-purged with helium and the components were separated by capillary column gas chromatography and measured with a mass spectrometer (GC/MS) operated in the electron impact full-scan mode. The individual VOCs in the samples were measured against corresponding VOC standards.

Unless otherwise indicated, soil data is calculated based on the matrix received (i.e. wet weight basis).

Analytical Results

Laboratory results were provided to the client on an as-completed or next-day basis. Final results of the on-site analyses are provided in a hardcopy report. The data produced and reported in the field has been reviewed and approved for this final report by the Director of Operations for KB Labs.

Quality Control (QC) Data

Surrogate Recoveries – Table 1 lists the daily analytical sequence and percent recovery results for surrogate compounds which were added to all analyses. Four (4) surrogate compounds were added to each analysis in order to continually monitor general method performance.

Matrix Spike Recoveries – Table 2 lists the percent recovery results for matrix spike samples. A known amount of each target compound was added to selected field samples and to laboratory reagent water in order to monitor the performance of each of the target compounds in the actual matrix and in laboratory reagent water.

Method Blanks – Daily analysis of laboratory reagent water samples was performed in order to monitor the cleanliness of the analytical system.

Signature: _____

Title: Data Specialist

Date: 10/11/01

KB LABS, INC.

DATA REPORT NARRATIVE

Client:	Tetra Tech NUS (TtNUS)	**Driller/Sampler:**	TtNUS	**Analyst:**	Yael Hoogland
Site:	NAS Jax	**KB Labs Project Manager:**	Kelly Bergdoll	**KB Labs Project #:**	
Onsite Dates:	09/25/01 - 10/01/01	**Client Project Manager:**	Greg Roof	**Matrix:**	Water and Soil

1. Results were changed slightly due to a rounding error or significant figure:

Well ID
DPT 6 10'
DPT 8 10'
DPT 17 10'
SB7 6'-10'

Signature: _____

Title: Data Specialist

Date: 10/11/01

"KB Labs is a small, woman-owned business enterprise."

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Tetra Tech NUS (TtNUS)	**Driller/Sampler**: TtNUS	**Analyst:** Yael Hoogland
Site: NAS Jax	**KB Labs Proj Mngr**: Kelly Bergdoll	**KB Labs Project No:**
On-site Dates: 09/25/01-10/01/01	**Client Project Manager**: Greg Roof	**Matrix:** Water and Soil

Sample ID	Date of Analysis	% Recovery (Control Limits) S1* (80-120)	S2* (80-120)	S3* (80-120)	S4* (80-120)	
vstd20	09/25/01	75	96	99	94	S1 low
vstd20	09/25/01	97	99	99	98	
blank	09/25/01	95	93	102	97	
blank	09/25/01	113	106	98	97	
DPT 6 10' 1:50	09/25/01	82	86	100	100	
DPT 7 10' 1:5	09/25/01	68	87	98	99	S1 low
DPT 8 10' 1:5	09/25/01	105	98	103	101	
DPT 20 9'	09/25/01	110	100	103	98	
DPT 6 10' 1:5	09/25/01	107	101	101	98	
DPT 7 10'	09/25/01	79	94	103	96	S1 low
DPT 7 10' ms	09/25/01	94	104	100	95	
DPT 7 10' msd	09/25/01	94	106	99	95	
DPT 10 30'-34'	09/25/01	104	100	97	96	rerun
DPT 10 20'-24'	09/25/01	52	67	85	98	S1,S2 low
DPT 21 6'-10'	09/25/01	37	79	94	86	S1,S2 low
DPT 10 30'-34'	09/25/01	112	99	101	96	
LCS	09/25/01	99	107	98	101	
CCS	09/25/01	114	106	101	101	
blank	09/25/01	128	106	104	102	S1 high
blank	09/25/01	119	102	102	100	
vstd20	09/26/01	52	82	96	99	S1 low
vstd20	09/26/01	110	97	101	102	
blank	09/26/01	110	98	101	101	
blank	09/26/01	99	94	104	103	
DPT 21 6'-10'	09/26/01	113	105	103	99	
DPT 22 6'-10'	09/26/01	74	84	98	100	S1 low
DPT 23 6'-10'	09/26/01	116	105	103	98	
DPT 24 6'-10'	09/26/01	117	104	101	98	
DPT 16 6'-10'	09/26/01	92	95	101	101	
DPT 16 30'-34'	09/26/01	92	95	99	97	
DPT 16 20'-24'	09/26/01	123	103	105	102	S1 high
DPT 10 20'-24'	09/26/01	76	79	96	103	S1,S2 low
DPT 3	09/26/01	96	91	99	99	
DPT 16 40'	09/26/01	115	96	103	101	
MW 4	09/26/01	111	96	102	100	
DPT 19 10'	09/26/01	125	101	104	102	S1 high
DPT 17 10'	09/26/01	109	98	101	103	
DPT 19 20'	09/26/01	117	95	102	106	
DPT 19 30'	09/26/01	123	97	103	103	S1 high

***Surrogate Compounds:**
S1 = 1,2- Dichloroethane-D4
S2 = 1,2-Difluorobenzene
S3 = Toluene-D8
S4 = 4-Bromofluorobenzene

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Tetra Tech NUS (TtNUS)	**Driller/Sampler**: TtNUS	**Analyst:** Yael Hoogland
Site: NAS Jax	**KB Labs Proj Mngr**: Kelly Bergdoll	**KB Labs Project No:**
On-site Dates: 09/25/01-10/01/01	**Client Project Manager**: Greg Roof	**Matrix:** Water and Soil

Sample ID	Date of Analysis	% Recovery (Control Limits) S1* (80-120)	S2* (80-120)	S3* (80-120)	S4* (80-120)	
DPT 19 34'	09/26/01	124	102	103	103	S1 high
MW 8	09/26/01	125	100	104	104	S1 high
MW 9	09/26/01	129	102	104	105	S1 high
MW 10	09/26/01	127	105	104	109	S1 high
MW 10 ms	09/26/01	129	110	104	111	S1 high
MW 10 msd	09/26/01	117	105	106	108	
LCS	09/26/01	135	106	103	104	S1 high
CCS	09/26/01	124	107	105	106	S1 high
blank	09/26/01	129	104	105	104	S1 high
blank	09/26/01	123	100	106	105	S1 high
vstd1	09/26/01	125	104	104	104	S1 high
vstd1	09/26/01	130	104	104	106	S1 high
vstd5	09/26/01	136	107	105	105	S1 high
vstd10	09/26/01	128	111	99	105	S1 high
vstd20	09/26/01	136	108	101	104	S1 high
vstd100	09/26/01	121	107	105	103	S1 high
vstd20	09/27/01	54	84	98	102	S1 low
vstd20	09/27/01	111	103	104	105	
blank	09/27/01	122	98	104	105	S1 high
blank	09/27/01	50	65	89	102	S1,S2 low
DPT 15 10'	09/27/01	105	94	102	102	
DPT 15 20'	09/27/01	89	93	97	101	
DPT 15 30'	09/27/01	119	103	98	100	
DPT 15 40'	09/27/01	131	100	100	103	S1 high
JX 51 14D	09/27/01	127	102	100	103	originally MW 140; S1 high
JX 51 13S	09/27/01	133	107	99	99	originally MW 13; S1 high
DPT 12 10'	09/27/01	131	103	100	101	S1 high
DPT 12 20'	09/27/01	134	100	100	110	S1 high
DPT 12 30'	09/27/01	133	103	99	100	S1 high
DPT 12 32'	09/27/01	131	101	99	102	S1 high
DPT 17 20'	09/27/01	131	103	100	100	S1 high
DPT 4	09/27/01	130	101	99	102	S1 high
DPT 18 20'	09/27/01	112	101	101	99	
DPT 18 10'	09/27/01	77	87	96	99	S1 low
DPT 9 10'	09/27/01	111	105	97	99	
DPT 9 39'	09/27/01	109	97	98	102	
DPT 9 30'	09/27/01	115	101	99	102	
DPT 9 20'	09/27/01	107	91	102	113	
DPT 14 10'	09/27/01	130	101	102	103	S1 high

***Surrogate Compounds:**
S1 = 1,2- Dichloroethane-D4
S2 = 1,2-Difluorobenzene
S3 = Toluene-D8
S4 = 4-Bromofluorobenzene

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Tetra Tech NUS (TtNUS)	**Driller/Sampler**: TtNUS	**Analyst:** Yael Hoogland
Site: NAS Jax	**KB Labs Proj Mngr**: Kelly Bergdoll	**KB Labs Project No:**
On-site Dates: 09/25/01-10/01/01	**Client Project Manager**: Greg Roof	**Matrix:** Water and Soil

Sample ID	Date of Analysis	% Recovery (Control Limits) S1* (80-120)	S2* (80-120)	S3* (80-120)	S4* (80-120)	
DPT 14 16'-20'	09/27/01	132	105	103	106	S1 high
DPT 11 10'	09/27/01	124	102	103	104	S1 high
DPT 11 20'	09/27/01	140	103	104	109	S1 high
DPT 13 10'	09/27/01	120	102	104	102	
DPT 11 35'	09/27/01	140	106	104	105	S1 high
MW 6	09/27/01	124	105	105	107	S1 high
MW 6 ms	09/27/01	125	106	104	107	S1 high
MW 6 msd	09/27/01	137	113	102	109	S1 high
LCS	09/27/01	128	108	104	106	S1 high
CCS	09/27/01	126	109	101	108	S1 high
blank	09/27/01	139	106	102	108	S1 high
DPT 11 30'	09/27/01	137	105	103	108	S1 high
DPT 13 20'	09/27/01	134	108	102	105	S1 high
blank	09/27/01	138	106	100	105	S1 high
vstd20	09/28/01	93	99	106	104	
vstd20	09/28/01	117	103	107	107	
blank	09/28/01	130	101	107	107	S1 high
blank	09/28/01	125	98	107	106	S1 high
DPT 13 20'	09/28/01	108	98	109	106	
DPT 11 30'	09/28/01	129	102	105	109	S1 high
DPT 5	09/28/01	129	105	106	102	S1 high
DPT 25 10'	09/28/01	143	109	104	104	S1 high
DPT 23 30'	09/28/01	132	105	105	101	S1 high
DPT 25 20'	09/28/01	135	105	103	100	S1 high
DPT 23 40'	09/28/01	126	103	104	101	S1 high
DPT 23 20'	09/28/01	135	105	104	100	S1 high
MW 5	09/28/01	126	104	103	101	S1 high
DPT 6 20'	09/28/01	137	104	104	102	S1 high
DPT 6 30'	09/28/01	135	108	102	99	S1 high
DPT 6 39'	09/28/01	144	113	101	101	S1 high
DPT 26 6'-10'	09/28/01	104	100	96	101	
DPT 26 20'	09/28/01	98	100	99	100	
DPT 21 40'	09/28/01	106	102	99	98	
DPT 21 20'	09/28/01	94	100	99	97	
DPT 21 30'	09/28/01	118	106	100	100	
DPT 24 20'	09/28/01	117	98	101	104	
DPT 24 30'	09/28/01	122	100	102	102	S1 high
DPT 26 30'	09/28/01	131	98	104	106	S1 high
DPT 22 20'	09/28/01	136	101	105	106	S1 high

***Surrogate Compounds:**
S1 = 1,2- Dichloroethane-D4
S2 = 1,2-Difluorobenzene
S3 = Toluene-D8
S4 = 4-Bromofluorobenzene

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Tetra Tech NUS (TtNUS)	**Driller/Sampler**: TtNUS	**Analyst:** Yael Hoogland
Site: NAS Jax	**KB Labs Proj Mngr**: Kelly Bergdoll	**KB Labs Project No:**
On-site Dates: 09/25/01-10/01/01	**Client Project Manager**: Greg Roof	**Matrix:** Water and Soil

Sample ID	Date of Analysis	% Recovery (Control Limits) S1* (80-120)	S2* (80-120)	S3* (80-120)	S4* (80-120)	
DPT 26 39'	09/28/01	126	103	108	104	S1 high
DPT 24 40'	09/28/01	128	101	105	103	S1 high
DPT 24 40' ms	09/28/01	124	104	106	106	S1 high
DPT 24 40' msd	09/28/01	130	108	105	106	S1 high
LCS	09/28/01	140	109	107	106	S1 high
CCS	09/28/01	124	105	106	108	S1 high
blank	09/28/01	131	102	108	106	S1 high
Surface Water	09/28/01	118	101	104	107	
blank	09/28/01	127	101	103	106	S1 high
vstd20	09/29/01	89	90	101	104	
vstd20	09/29/01	113	98	104	104	
blank	09/29/01	123	100	104	103	S1 high
blank	09/29/01	122	99	105	104	S1 high
SB1 SO3	09/29/01	52	68	99	105	S1,S2 low
SB1 4'-8'	09/29/01	170	108	100	104	S1 high
SB2 6'-10'	09/29/01	123	101	108	103	S1 high
SB2 SO3	09/29/01	131	101	104	106	S1 high
SB3 SO3	09/29/01	127	103	104	102	S1 high
SB4 SO3	09/29/01	131	105	102	102	S1 high
SB5 SO3	09/29/01	133	105	105	103	S1 high
SB6 SO3	09/29/01	136	105	106	106	S1 high
SB3 6'-10'	09/29/01	131	103	105	101	S1 high
SB4 6'-10'	09/29/01	128	103	103	103	S1 high
SB5 6'-10'	09/29/01	114	96	104	104	
SB6 6'-10'	09/29/01	125	101	107	106	S1 high
SB7 6'-10'	09/29/01	116	100	102	106	
SB8 6'-10'	09/29/01	129	105	101	106	S1 high
SB9 6'-10'	09/29/01	129	104	103	103	S1 high
SB10 6'-10'	09/29/01	125	102	102	103	S1 high
SB11 6'-10'	09/29/01	129	106	106	107	S1 high
SB12 6'-10'	09/29/01	132	102	106	107	S1 high
SB13 6'-10'	09/29/01	127	103	105	106	S1 high
SB14 SO3	09/29/01	139	104	109	109	S1 high
SB7 SO3	09/29/01	130	108	106	107	S1 high
SB8 SO3	09/29/01	131	105	105	108	S1 high
SB9 SO3	09/29/01	134	104	105	106	S1 high
SB10 SO3	09/29/01	137	105	108	109	S1 high
SB11 SO3	09/29/01	139	109	105	104	S1 high
SB12 SO3	09/29/01	134	106	107	109	S1 high

***Surrogate Compounds:**
S1 = 1,2- Dichloroethane-D4
S2 = 1,2-Difluorobenzene
S3 = Toluene-D8
S4 = 4-Bromofluorobenzene

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Tetra Tech NUS (TtNUS)	**Driller/Sampler**: TtNUS	**Analyst:** Yael Hoogland
Site: NAS Jax	**KB Labs Proj Mngr**: Kelly Bergdoll	**KB Labs Project No:**
On-site Dates: 09/25/01-10/01/01	**Client Project Manager**: Greg Roof	**Matrix:** Water and Soil

Sample ID	Date of Analysis	% Recovery (Control Limits) S1* (80-120)	S2* (80-120)	S3* (80-120)	S4* (80-120)	
SB13 SO3	09/29/01	137	108	105	106	S1 high
SB14 6'-10'	09/29/01	148	114	103	106	S1 high
SB14 6'-10' ms	09/29/01	117	103	103	103	
SB14 6'-10' msd	09/29/01	128	109	105	106	S1 high
LCS	09/29/01	131	106	104	107	S1 high
CCS	09/29/01	111	100	104	107	
blank	09/29/01	133	108	105	108	S1 high
SB1 4'-8'	09/29/01	142	112	105	108	S1 high
blank	09/29/01	135	104	106	105	S1 high
vstd20	09/30/01	83	90	106	108	
vstd20	09/30/01	121	105	106	108	S1 high
blank	09/30/01	131	104	104	106	S1 high
blank	09/30/01	140	107	104	107	S1 high
SB15 6'-10'	09/30/01	47	70	93	97	S1,S2 low
SB15 SO3	09/30/01	31	48	90	103	S1,S2 low
SB15 SO3	09/30/01	64	75	95	100	S1,S2 low
SB10 20'-24' 1:10	09/30/01	155	105	102	104	S1 high
SB15 6'-10'	09/30/01	127	102	102	102	S1 high
SB15 6'-10' ms	09/30/01	127	104	102	103	S1 high
SB15 6'-10' msd	09/30/01	132	109	102	100	S1 high
LCS	09/30/01	132	111	102	105	S1 high
CCS	09/30/01	125	107	102	103	S1 high
blank	09/30/01	137	109	105	104	S1 high
SB10 20'-24'	09/30/01	156	101	102	109	S1 high
blank	09/30/01	128	107	105	104	S1 high
SB10 20'-24'	09/30/01	78	92	103	102	S1 low
vstd20	10/01/01	107	103	101	105	
vstd20	10/01/01	110	104	104	102	
blank	10/01/01	122	101	101	103	S1 high
blank	10/01/01	132	107	98	104	S1 high
DPT 18 30'	10/01/01	88	91	99	101	
DPT 18 40'	10/01/01	107	97	100	103	
DPT 13 30'	10/01/01	NA	NA	NA	NA	instrument error; rerun
DPT 13 39'	10/01/01	113	94	104	104	
DPT 13 30'	10/01/01	128	103	99	104	S1 high
DPT 13 30' ms	10/01/01	123	103	101	106	S1 high
DPT 13 30' msd	10/01/01	141	109	99	104	S1 high
blank	10/01/01	125	102	103	104	S1 high
DPT 7 30'	10/01/01	99	91	97	101	

***Surrogate Compounds:**
S1 = 1,2- Dichloroethane-D4
S2 = 1,2-Difluorobenzene
S3 = Toluene-D8
S4 = 4-Bromofluorobenzene

KB LABS, INC.

Table 1: Analytical Run Sequence/Surrogate Percent Recoveries

Client: Tetra Tech NUS (TtNUS)	**Driller/Sampler**: TtNUS	**Analyst:** Yael Hoogland
Site: NAS Jax	**KB Labs Proj Mngr**: Kelly Bergdoll	**KB Labs Project No:**
On-site Dates: 09/25/01-10/01/01	**Client Project Manager**: Greg Roof	**Matrix:** Water and Soil

Sample ID	Date of Analysis	% Recovery (Control Limits) S1* (80-120)	S2* (80-120)	S3* (80-120)	S4* (80-120)	
DPT 7 40'	10/01/01	128	106	102	100	S1 high
DPT 8 30'	10/01/01	121	101	102	104	S1 high
DPT 8 40'	10/01/01	111	101	100	101	
LCS	10/01/01	115	105	98	103	
CCS	10/01/01	125	107	101	100	S1 high
blank	10/01/01	123	101	99	103	S1 high

Signature: _____

Title: Data Specialist

Date: 10/11/01

***Surrogate Compounds:**
S1 = 1,2- Dichloroethane-D4
S2 = 1,2-Difluorobenzene
S3 = Toluene-D8
S4 = 4-Bromofluorobenzene

KB LABS, INC.

Table 2: VOC Spike Compound Percent Recoveries

Client: Tetra Tech NUS (TtNUS)	**Driller/Sampler**: TtNUS	**Analyst**: Yael Hoogland
Site: NAS Jax	**KB Labs Project Manager**: Kelly Bergdoll	**KB Labs Project No:**
On-site Dates: 09/25/01-10/01/01	**Client Project Manager**: Greg Roof	**Matrix:** Water and Soil

Spike Compounds * > >	**VOC1**	**VOC2**	**VOC3**	**VOC4**	**VOC5**	**VOC6**	**VOC7**	**VOC8**	**V0C9**	**VOC10**	**VOC11**	**VOC12**	**Comment**
Control Limits (CL)* * > >	*57-130*	*55-130*	*67-128*	*61-130*	*74-128*	*75-119*	*27-159*	*79-114*	*73-126*	*81-114*	*74-120*	*78-116*	
Warning Limits* * > >	*69-118*	*68-117*	*77-118*	*72-118*	*83-119*	*82-111*	*49-137*	*85-108*	*82-117*	*86-108*	*82-113*	*85-110*	
RPD Limit (RPDL) > >	*20*	*20*	*20*	*20*	*20*	*20*	*20*	*20*	*20*	*20*	*20*	*20*	
Station/Sample ID:	**Percent (%) Recoveries**												
DPT 7 ms	105	NA	NA	98	151	110	137	87	NA	70	70	74	VOC5 high; VOC10,11,12 low
DPT 7 msd	102	NA	NA	90	115	129	115	85	NA	68	65	68	VOC6 high; VOC10,11,12 low
RPD	3			9	27	16	17	2		3	7	8	VOC5 RPD high
MW 10 ms	122	NA	NA	122	116	108	127	94	NA	97	92	90	
MW 10 msd	117	NA	NA	119	105	100	119	97	NA	99	94	92	
RPD	4			2	10	8	7	3		2	2	2	
MW 6 ms	115	NA	NA	120	104	92	85	95	NA	94	92	91	
MW 6 msd	128	NA	NA	142	128	111	99	98	NA	96	97	93	VOC4,5 high
RPD	11			17	21	19	15	3		2	5	2	VOC5 RPD high
DPT 24 40' ms	106	NA	NA	106	98	97	80	86	NA	92	87	85	
DPT 24 40' msd	110	NA	NA	112	110	103	85	91	NA	96	92	91	
RPD	4			6	12	6	6	6		4	6	7	
SB14 6'-10' ms	NA	NA	NA	NA	NA	97	NA	86	NA	93	85	83	
SB14 6'-10' msd	NA	NA	NA	NA	NA	102	NA	89	NA	96	88	86	
RPD						5		3		3	3	4	
SB15 6'-10' ms	NA	NA	NA	NA	NA	95	NA	85	NA	91	86	84	
SB15 6'-10' msd	NA	NA	NA	NA	NA	102	NA	88	NA	94	87	85	
RPD						7		3		3	1	1	
DPT 13 30' ms	145	NA	NA	134	115	115	95	101	NA	105	97	92	VOC1,4 high
DPT 13 30' msd	140	NA	NA	132	124	121	98	96	NA	101	93	91	VOC1,4,6 high
RPD	4			2	8	5	3	5		4	4	1	

** Control limits based on historical matrix spike recoveries.

<u>* Spike Compounds</u>

VOC1 = Vinyl chloride
VOC2 = 1,1-Dichloroethene
VOC3 = 1,1,2-Trichloro-1,2,2-trifluoroethane
VOC4 = t-1,2-Dichloroethene
VOC5 = c-1,2-Dichloroethene
VOC6 = Benzene
VOC7 = Trichloroethene
VOC8 = Toluene
VOC9 = Tetrachloroethene
VOC10 = Ethylbenzene
VOC11 = m&p-Xylene
VOC12 = o-Xylene

Signature: 

Title: Data Specialist

Date: 10/11/01

KB LABS, INC.
Final Data Report
NAS Jax High Power Turn-up Pad
September 29-30, 2001

Prepared for : Tetra Tech NUS

	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
	SB 1 (4'-8')	SB 2 (6'-10')	SB 3 (6'-10')	SB 4 (6'-10')	SB 5 (6'-10')	SB 6 (6'-10')	SB 7 (6'-10')	SB 8 (6'-10')	SB 9 (6'-10')	SB 10 (6'-10')	SB 10 (20'-24')
Date of Analysis:	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/30/2001
Matrix:	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Dilution Factor:	1	1	1	1	1	1	1	1	1	1	1
MTBE	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.8	<1
m&p-Xylene	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene	<1	<1	<1	<1	1.4	<1	1.0	<1	6.4	46.2	<1
1-Methylnaphthalene	<1	<1	<1	<1	<1	<1	<1	1.2	7.8	22.0	<1
2-Methylnaphthalene	<1	<1	<1	<1	<1	<1	<1	1.1	6.2	22.0	<1

Units for waters are ug/L and for soils ug/Kg.

KB LABS, INC.
Final Data Report
NAS Jax High Power Turn-up Pad
September 29-30, 2001

Prepared for : Tetra Tech NUS

	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
	SB 11 (6'-10')	SB 12 (6'-10')	SB 13 (6'-10')	SB 14 (6'-10')	SB 15 (6'-10')	SB 1 SO3	SB 2 SO3	SB 3 SO3	SB 4 SO3	SB 5 SO3	SB 6 SO3
Date of Analysis:	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/30/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001
Matrix:	Water	Water	Water	Water	Water	Soil	Soil	Soil	Soil	Soil	Soil
Dilution Factor:	1	1	1	1	1	1	1	1	1	1	1
MTBE	<1	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10
Benzene	<1	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10
Toluene	<1	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10
Ethylbenzene	<1	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10
m&p-Xylene	<1	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10
o-Xylene	<1	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10
Naphthalene	**3.4**	<1	<1	<1	**1.7**	<10	<10	<10	<10	<10	<10
1-Methylnaphthalene	**4.1**	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	**3.7**	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10

Units for waters are ug/L and for soils ug/Kg.

KB LABS, INC.
Final Data Report
NAS Jax High Power Turn-up Pad
September 29-30, 2001

Prepared for : Tetra Tech NUS

	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
	SB 7 SO3	SB 8 SO3	SB 9 SO3	SB 10 SO3	SB11 SO3	SB 12 SO3	SB 13 SO3	SB 14 SO3	SB 15 SO3		
Date of Analysis:	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/30/2001		
Matrix:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Dilution Factor:	1	1	1	1	1	1	1	1	1		
MTBE	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Benzene	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Toluene	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Ethylbenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10		
m&p-Xylene	<10	<10	<10	<10	<10	<10	<10	<10	<10		
o-Xylene	<10	<10	<10	<10	<10	<10	<10	<10	<10		
Naphthalene	<10	<10	<10	<10	<10	<10	<10	<10	<10		
1-Methylnaphthalene	<10	<10	<10	<10	<10	<10	<10	<10	<10		
2-Methylnaphthalene	<10	<10	<10	<10	<10	<10	<10	<10	<10		

Units for waters are ug/L and for soils ug/Kg.

CHAIN-OF-CUSTODY RECORD

Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

FOR LAB USE ONLY

PROJECT NAME	SITE NAME & ADDRESS
NAS JAX	High Power Turn Pad Nas, Jax, FL
SAMPLERS: *(Signature)*	CONTACT PERSON (Lab use only)
TetraTech	Greg / Joe

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	BTEX, MTBE, TO MN & NAPH	Lab I.D. Number
SB-1-S03	9/29	8:55		✓		S	1		✓	
SB-1 4'-8'		9:35		✓		W	2			
SB-2-S03		9:49		✓		S	1			
SB-2 6'-10'		10:00		✓		W	2			
SB-3 6'-10'		10:20		✓		W	2			
SB-3 S03		10:05		✓		S	1			
SB-4 S03		10:29		✓		S	1			
SB-4 6'-10'		10:38		✓		W	2			
SB-5 S03		10:42		✓		S	1			
SB-5 6-10'		11:08		✓		W	2			
SB-6 S03		11:31		✓		S	1			
SB-6 6'-10		11:35		✓		W	2			
SB-7 S03		11:45		✓		S	1			
SB-7 6'-10		12:00		✓		W	2			
SB-8 S03		12:11		✓		S	1		↓	

	Date / Time		Date / Time	
Precleaned Containers Relinquished by: *(Signature)*	09 29 001	Received by: *(Signature)*	0929 2001	**Remarks and Observations**
Relinquished by: *(Signature)*	0929 2001	Received by: *(Signature)*	09 29 2001	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

CHAIN-OF-CUSTODY RECORD

KB LABS Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

FOR LAB USE ONLY

PROJECT NAME	SITE NAME & ADDRESS
NAS JAX	High Power Turn Pad Nas, Jax
SAMPLERS: (Signature) Test2Tech	CONTACT PERSON Greg / Joe

PRESERVATION: C Chilled; H HCL; Ot Other (see Remarks)

SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER	SAMPLE MATRIX	NUMBER OF CONTAINERS	IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS: VOLATILES	BTEX, MTBE, 1,2 DCA	Lab I.D. Number
SB 8 6'-10'	9/29	12:19		✓		W	2		✓	
SB 9 S03		12:41		✓		S	1		✓	
SB 9 6'-10'		13:00		✓		W	2		✓	
SB 10 S03		13:10		✓		S	1		✓	
SB 10 6'-10		13:20		✓		W	2		✓	
SB 11 S03		13:30		✓		S	1		✓	
SB 11 6'-10'		13:50		✓		W	2		✓	
SB 12 S03		14:02		✓		S	1		✓	
SB 12 6'-10'		14:19		✓		W	2		✓	
SB 13 S03		14:30		✓		S	1		✓	
SB 13 6'-10'		14:46		✓		W	2		✓	
SB 14 S03		15:00		✓		S	1		✓	
SB 14 6'-10'		15:15		✓		W	2		✓	

Precleaned Containers Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Remarks and Observations
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	
			09/29/2001	

Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

ND LABS
Mobile Laboratory Services
6821 SW Archer Road
Gainesville, FL 32608
TEL (352) 367-0073
FAX (352) 367-0074

CHAIN-OF-CUSTODY RECORD

FOR LAB USE ONLY

PROJECT NAME: Fetr Nas Jax

SITE NAME & ADDRESS: High Power Turn up Pad JAX

SAMPLERS: *(Signature)* TetraTech

CONTACT PERSON: Joe

IDENTIFY PARAMETERS DESIRED AND NO. OF CONTAINERS

PRESERVATION
C Chilled
H HCL
Ot Other (see Remarks)

SAMPLE FIELD ID. NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION / NUMBER	SAMPLE MATRIX	NUMBER OF CONTAINERS	VOLATILES	BTEX, Naph & 1&2 Naph				Lab I.D. Number
SB 10 20'-24'	9/30	9:49		✓		W	2		✓				
SB 15 S03		10:06		✓		S	1		✓				
SB 15 6'-10'		10:30		✓		W	2		✓				
													Y84 093001

Precleaned Containers Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time	Remarks and Observations
Relinquished by: *(Signature)* [signature]	Date / Time	Received by: *(Signature)* [signature]	Date / Time 9/30/2001	

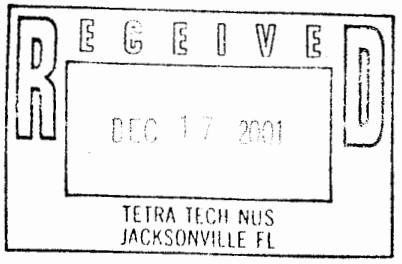
Matrix Types S Soil SW Surface Water GW Ground Water SG Soil Gas

ATTACHMENT C
FIXED-BASE LAB ANALYTICAL RESULTS

CTO192-NAS JACKSONVILLE
SOIL DATA
Accutest, NJ
SDG: F11075

SAMPLE NUMBER:	JAX-HPTP-SB05-S03	JAX-HPTP-SB10-S03	JAX-HPTP-SB11-S03	
SAMPLE DATE:	09/30/01	09/30/01	09/30/01	/ /
LABORATORY ID:	F11075-3	F11075-1	F11075-2	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	1.0 %	1.0 %	1.0 %	100.0 %
UNITS:	UG/KG	UG/KG	UG/KG	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
BENZENE	6.9	U		6	U		5.9	U				
ETHYLBENZENE	6.9	U		6	U		5.9	U				
METHYL TERT-BUTYL ETHER	6.9	U		6	U		5.9	U				
TOLUENE	6.9	U		6	U		5.9	U				
TOTAL XYLENES	21	U		18	U		18	U				



CTO192-NAS JACKSONVILLE
SOIL DATA
Accutest, NJ
SDG: F11075

SAMPLE NUMBER:	JAX-HPTP-SB05-S03	JAX-HPTP-SB10-S03	JAX-HPTP-SB11-S03	
SAMPLE DATE:	09/30/01	09/30/01	09/30/01	/ /
LABORATORY ID:	F11075-3	F11075-1	F11075-2	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	1.0 %	1.0 %	1.0 %	100.0 %
UNITS:	UG/KG	UG/KG	UG/KG	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	380	U		370	U		380	U				
2-METHYLNAPHTHALENE	380	U		370	U		380	U				
ACENAPHTHENE	760	U		740	U		760	U				
ACENAPHTHYLENE	760	U		740	U		760	U				
ANTHRACENE	380	U		370	U		380	U				
BENZO(A)ANTHRACENE	380	U		370	U		380	U				
BENZO(A)PYRENE	46.6	J		74	U		76	U				
BENZO(B)FLUORANTHENE	76	U		74	U		76	U				
BENZO(G,H,I)PERYLENE	76	U		74	U		76	U				
BENZO(K)FLUORANTHENE	76	U		74	U		76	U				
CHRYSENE	380	U		370	U		380	U				
DIBENZO(A,H)ANTHRACENE	76	U		74	U		76	U				
FLUORANTHENE	380	U		370	U		380	U				
FLUORENE	380	U		370	U		380	U				
INDENO(1,2,3-CD)PYRENE	76	U		74	U		76	U				
NAPHTHALENE	380	U		370	U		380	U				
PHENANTHRENE	380	U		370	U		380	U				
PYRENE	380	U		370	U		380	U				

CTO192-NAS JACKSONVILLE
SOIL DATA
Accutest, NJ
SDG: F11075

SAMPLE NUMBER:	JAX-HPTP-SB05-S03	JAX-HPTP-SB10-S03	JAX-HPTP-SB11-S03	
SAMPLE DATE:	09/30/01	09/30/01	09/30/01	/ /
LABORATORY ID:	F11075-3	F11075-1	F11075-2	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	1.0 %	1.0 %	1.0 %	100.0 %
UNITS:	MG/KG	MG/KG	MG/KG	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	44.9			9.48			9.4	U				

CTO192-NAS JACKSONVILLE
WATER DATA
Accutest, NJ
SDG: F11313

SAMPLE NUMBER:	EQUIPMENT BLANK			JX-HPTP-MW1-01			JX-HPTP-MW2-01			JX-HPTP-MW3-01		
SAMPLE DATE:	10/24/01			10/24/01			10/24/01			10/24/01		
LABORATORY ID:	F11313-1			F11313-2			F11313-3			F11313-4		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE	1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE	1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE	0.02	U		0.02	U		0.02	U		0.02	U	
1,2-DICHLOROBENZENE	1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE	1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE	1	U		1	U		1	U		1	U	
1,3-DICHLOROBENZENE	1	U		1	U		1	U		1	U	
1,4-DICHLOROBENZENE	1	U		1	U		1	U		1	U	
2-CHLOROETHYL VINYL ETHER	1	U		1	U		1	U		1	U	
BENZENE	1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE	1	U		1	U		1	U		1	U	
BROMOFORM	1	U		1	U		1	U		1	U	
BROMOMETHANE	1	U		1	U		1	U		1	U	
CARBON TETRACHLORIDE	1	U		1	U		1	U		1	U	
CHLOROBENZENE	1	U		1	U		1	U		1	U	
CHLORODIBROMOMETHANE	1	U		1	U		1	U		1	U	
CHLOROETHANE	1	U		1	U		1	U		1	U	
CHLOROFORM	1	U		1	U		1	U		1	U	
CHLOROMETHANE	1	U		1	U		1	U		1	U	
CIS-1,2-DICHLOROETHENE	1	U		1	U		0.82	J	P	6.2		
CIS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE	1	U		1	U		1	U		1	U	
ETHYLBENZENE	1	U		1	U		1	U		1	U	
METHYL TERT-BUTYL ETHER	1	U		1	U		1	U		1	U	
METHYLENE CHLORIDE	5	U		5	U		5	U		5	U	
TETRACHLOROETHENE	1	U		1	U		1	U		1	U	
TOLUENE	1	U		1	U		1	U		1	U	
TOTAL XYLENES	3	U		3	U		3	U		3	U	
TRANS-1,2-DICHLOROETHENE	1	U		1	U		1	U		1	U	

CTO192-NAS JACKSONVILLE
WATER DATA
Accutest, NJ
SDG: F11313

SAMPLE NUMBER:	EQUIPMENT BLANK			JX-HPTP-MW1-01			JX-HPTP-MW2-01			JX-HPTP-MW3-01		
SAMPLE DATE:	10/24/01			10/24/01			10/24/01			10/24/01		
LABORATORY ID:	F11313-1			F11313-2			F11313-3			F11313-4		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
VOLATILES												
TRANS-1,3-DICHLOROPROPENE	1	U		1	U		1	U		1	U	
TRICHLOROETHENE	1	U		1	U		1	U		0.62	J	P
TRICHLOROFLUOROMETHANE	1	U		1	U		1	U		1	U	
VINYL CHLORIDE	1	U		1	U		1	U		2.3		

CTO192-NAS JACKSONVILLE
WATER DATA
Accutest, NJ
SDG: F11313

SAMPLE NUMBER:	JX-HPTP-TB-01		
SAMPLE DATE:	10/24/01	/ /	/ /	/ /
LABORATORY ID:	F11313-5			
QC_TYPE:	NORMAL			
% SOLIDS:	0.0 %	100.0 %	100.0 %	100.0 %
UNITS:	UG/L			
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	1	U										
1,1,2,2-TETRACHLOROETHANE	1	U										
1,1,2-TRICHLOROETHANE	1	U										
1,1-DICHLOROETHANE	1	U										
1,1-DICHLOROETHENE	1	U										
1,2-DICHLOROBENZENE	1	U										
1,2-DICHLOROETHANE	1	U										
1,2-DICHLOROPROPANE	1	U										
1,3-DICHLOROBENZENE	1	U										
1,4-DICHLOROBENZENE	1	U										
2-CHLOROETHYL VINYL ETHER	1	U										
BENZENE	1	U										
BROMODICHLOROMETHANE	1	U										
BROMOFORM	1	U										
BROMOMETHANE	1	U										
CARBON TETRACHLORIDE	1	U										
CHLOROBENZENE	1	U										
CHLORODIBROMOMETHANE	1	U										
CHLOROETHANE	1	U										
CHLOROFORM	1	U										
CHLOROMETHANE	1	U										
CIS-1,2-DICHLOROETHENE	1	U										
CIS-1,3-DICHLOROPROPENE	1	U										
DICHLORODIFLUOROMETHANE	1	U										
ETHYLBENZENE	1	U										
METHYL TERT-BUTYL ETHER	1	U										
METHYLENE CHLORIDE	5	U										
TETRACHLOROETHENE	1	U										
TOLUENE	1	U										
TOTAL XYLENES	3	U										
TRANS-1,2-DICHLOROETHENE	1	U										
TRANS-1,3-DICHLOROPROPENE	1	U										

CTO192-NAS JACKSONVILLE
WATER DATA
Accutest, NJ
SDG: F11313

SAMPLE NUMBER:	JX-HPTP-TB-01			
SAMPLE DATE:	10/24/01	/ /	/ /	/ /
LABORATORY ID:	F11313-5			
QC_TYPE:	NORMAL			
% SOLIDS:	0.0 %	100.0 %	100.0 %	100.0 %
UNITS:	UG/L			
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRICHLOROETHENE	1	U										
TRICHLOROFLUOROMETHANE	1	U										
VINYL CHLORIDE	1	U										

CTO192-NAS JACKSONVILLE
WATER DATA
Accutest, NJ
SDG: F11314

SAMPLE NUMBER:	EQUIPMENT BLANK			JX-HPTP-MW1-01								
SAMPLE DATE:	10/24/01			10/24/01			/ /			/ /		
LABORATORY ID:	F11314-2			F11314-1								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2.2	U		2	U							
2-METHYLNAPHTHALENE	2.2	U		2	U							
ACENAPHTHENE	4.4	U		4	U							
ACENAPHTHYLENE	4.4	U		4	U							
ANTHRACENE	2.2	U		2	U							
BENZO(A)ANTHRACENE	0.22	U		0.2	U							
BENZO(A)PYRENE	0.22	U		0.2	U							
BENZO(B)FLUORANTHENE	0.22	U		0.2	U							
BENZO(G,H,I)PERYLENE	0.22	U		0.2	U							
BENZO(K)FLUORANTHENE	0.22	U		0.2	U							
CHRYSENE	2.2	U		2	U							
DIBENZO(A,H)ANTHRACENE	0.22	U		0.2	U							
FLUORANTHENE	2.2	U		2	U							
FLUORENE	2.2	U		2	U							
INDENO(1,2,3-CD)PYRENE	0.22	U		0.2	U							
NAPHTHALENE	2.2	U		2	U							
PHENANTHRENE	2.2	U		2	U							
PYRENE	2.2	U		2	U							

CTO192-NAS JACKSONVILLE
WATER DATA
Accutest, NJ
SDG: F11313

SAMPLE NUMBER:	JX-HPTP-MW2-01			JX-HPTP-MW3-01			/ /			/ /		
SAMPLE DATE:	10/24/01			10/24/01								
LABORATORY ID:	F11313-3			F11313-4								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2	U		2	U							
2-METHYLNAPHTHALENE	2	U		2	U							
ACENAPHTHENE	4	U		4	U							
ACENAPHTHYLENE	4	U		4	U							
ANTHRACENE	2	U		2	U							
BENZO(A)ANTHRACENE	0.2	U		0.2	U							
BENZO(A)PYRENE	0.2	U		0.2	U							
BENZO(B)FLUORANTHENE	0.2	U		0.2	U							
BENZO(G,H,I)PERYLENE	0.2	U		0.2	U							
BENZO(K)FLUORANTHENE	0.2	U		0.2	U							
CHRYSENE	2	U		2	U							
DIBENZO(A,H)ANTHRACENE	0.2	U		0.2	U							
FLUORANTHENE	2	U		2	U							
FLUORENE	2	U		2	U							
INDENO(1,2,3-CD)PYRENE	0.2	U		0.2	U							
NAPHTHALENE	2	U		2	U							
PHENANTHRENE	2	U		2	U							
PYRENE	2	U		2	U							

CTO192-NAS JACKSONVILLE
WATER DATA
Accutest, NJ
SDG: F11314

SAMPLE NUMBER:	EQUIPMENT BLANK	JX-HPTP-MW1-01		
SAMPLE DATE:	10/24/01	10/24/01	/ /	/ /
LABORATORY ID:	F11314-2	F11314-1		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	MG/L	MG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	0.25	U		0.25	U							

CTO192-NAS JACKSONVILLE
WATER DATA
Accutest, NJ
SDG: F11313

SAMPLE NUMBER:	JX-HPTP-MW2-01			JX-HPTP-MW3-01								
SAMPLE DATE:	10/24/01			10/24/01			/ /			/ /		
LABORATORY ID:	F11313-3			F11313-4								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	MG/L			MG/L								
FIELD DUPLICATE OF:												
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
TOTAL PETROLEUM HYDROCARBONS	0.27			0.726								

CTO192-NAS JACKSONVILLE
WATER DATA
Accutest, NJ
SDG: F11314

SAMPLE NUMBER:	EQUIPMENT BLANK			JX-HPTP-MW1-01								
SAMPLE DATE:	10/24/01			10/24/01			/ /			/ /		
LABORATORY ID:	F11314-2			F11314-1								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
INORGANICS												
LEAD	1.2	U		1.2	U							

CTO192-NAS JACKSONVILLE
WATER DATA
Accutest, NJ
SDG: F11313

SAMPLE NUMBER:	JX-HPTP-MW2-01	JX-HPTP-MW3-01		
SAMPLE DATE:	10/24/01	10/24/01	/ /	/ /
LABORATORY ID:	F11313-3	F11313-4		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
LEAD	1.2	U		1.2	U							

CTO192-NAS JACKSONVILLE
WATER DATA
Accutest, NJ
SDG: F11944

SAMPLE NUMBER:	JAX-HPTP-MW04-01			JAX-HPTP-MW05-01								
SAMPLE DATE:	01/03/02			01/03/02			/ /			/ /		
LABORATORY ID:	F11944-2			F11944-1								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
VOLATILES												
1,1,1-TRICHLOROETHANE	1	U		1	U							
1,1,2,2-TETRACHLOROETHANE	1	U		1	U							
1,1,2-TRICHLOROETHANE	1	U		1	U							
1,1-DICHLOROETHANE	1	U		1	U							
1,1-DICHLOROETHENE	1	U		1	U							
1,2-DIBROMOETHANE	0.02	U		0.02	U							
1,2-DICHLOROBENZENE	1	U		1	U							
1,2-DICHLOROETHANE	1	U		1	U							
1,2-DICHLOROPROPANE	1	U		1	U							
1,3-DICHLOROBENZENE	1	U		1	U							
1,4-DICHLOROBENZENE	1	U		1	U							
2-CHLOROETHYL VINYL ETHER	1	U		1	U							
BENZENE	1	U		1	U							
BROMODICHLOROMETHANE	1	U		1	U							
BROMOFORM	1	U		1	U							
BROMOMETHANE	1	U		1	U							
CARBON TETRACHLORIDE	1	U		1	U							
CHLOROBENZENE	1	U		1	U							
CHLORODIBROMOMETHANE	1	U		1	U							
CHLOROETHANE	1	U		1	U							
CHLOROFORM	1	U		1	U							
CHLOROMETHANE	1	U		1	U							
CIS-1,2-DICHLOROETHENE	24.4			2.8								
CIS-1,3-DICHLOROPROPENE	1	U		1	U							
DICHLORODIFLUOROMETHANE	1	U		1	U							
ETHYLBENZENE	1	U		1	U							
METHYL TERT-BUTYL ETHER	1	U		1	U							
METHYLENE CHLORIDE	5	U		5	U							
TETRACHLOROETHENE	1	U		1	U							
TOLUENE	1	U		1	U							
TOTAL XYLENES	3	U		3	U							
TRANS-1,2-DICHLOROETHENE	0.5	J	P	1	U							

SAMPLE NUMBER:	JAX-HPTP-MW04-01	JAX-HPTP-MW05-01	/ /	/ /
SAMPLE DATE:	01/03/02	01/03/02		
LABORATORY ID:	F11944-2	F11944-1		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRANS-1,3-DICHLOROPROPENE	1	U		1	U							
TRICHLOROETHENE	0.81	J	P	0.49	J	P						
TRICHLOROFLUOROMETHANE	1	U		1	U							
VINYL CHLORIDE	6.7			0.84	J	P						

CTO192-NAS JACKSONVILLE
WATER DATA
Accutest, NJ
SDG: F11944

SAMPLE NUMBER:	JAX-HPTP-MW04-01			JAX-HPTP-MW05-01								
SAMPLE DATE:	01/03/02			01/03/02			/ /			/ /		
LABORATORY ID:	F11944-2			F11944-1								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2.2	U		2	U							
2-METHYLNAPHTHALENE	2.2	U		2	U							
ACENAPHTHENE	4.4	U		4	U							
ACENAPHTHYLENE	4.4	U		4	U							
ANTHRACENE	2.2	U		2	U							
BENZO(A)ANTHRACENE	0.22	U		0.2	U							
BENZO(A)PYRENE	0.22	U		0.2	U							
BENZO(B)FLUORANTHENE	0.22	U		0.2	U							
BENZO(G,H,I)PERYLENE	0.22	U		0.2	U							
BENZO(K)FLUORANTHENE	0.22	U		0.2	U							
CHRYSENE	2.2	U		2	U							
DIBENZO(A,H)ANTHRACENE	0.22	U		0.2	U							
FLUORANTHENE	2.2	U		2	U							
FLUORENE	2.2	U		2	U							
INDENO(1,2,3-CD)PYRENE	0.22	U		0.2	U							
NAPHTHALENE	2.2	U		2	U							
PHENANTHRENE	2.2	U		2	U							
PYRENE	2.2	U		2	U							

SAMPLE NUMBER:	JAX-HPTP-MW04-01	JAX-HPTP-MW05-01	
SAMPLE DATE:	01/03/02	01/03/02	/ /
LABORATORY ID:	F11944-2	F11944-1	
QC_TYPE:	NORMAL	NORMAL	
% SOLIDS:	0.0 %	0.0 %	100.0 %
UNITS:	MG/L	MG/L	
FIELD DUPLICATE OF:			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TOTAL PETROLEUM HYDROCARBONS	0.25	U		0.25	U							

CTO192-NAS JACKSONVILLE
WATER DATA
Accutest, NJ
SDG: F11944

SAMPLE NUMBER:	JAX-HPTP-MW04-01			JAX-HPTP-MW05-01								
SAMPLE DATE:	01/03/02			01/03/02			/ /			/ /		
LABORATORY ID:	F11944-2			F11944-1								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												
	RESULT	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
INORGANICS												
LEAD	1.7	U	A	1.9	U	A						

Accutest Laboratories

Report of Analysis

Client Sample ID:	JAX-HPTP-SB10-S03		
Lab Sample ID:	F11075-1	**Date Sampled:**	09/30/01
Matrix:	SO - Soil	**Date Received:**	10/02/01
Method:	SW846 8260B	**Percent Solids:**	89.9
Project:	NAS JAX- N2872-100101 CTO#0192		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K006988.D	1	10/11/01	NAF	n/a	n/a	VK232
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	6.0	ug/kg	
108-88-3	Toluene	ND	6.0	ug/kg	
100-41-4	Ethylbenzene	ND	6.0	ug/kg	
1330-20-7	Xylene (total)	ND	18	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	6.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		75-125%
2037-26-5	Toluene-D8	101%		75-125%
460-00-4	4-Bromofluorobenzene	116%		72-137%
17060-07-0	1,2-Dichloroethane-D4	110%		68-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JAX-HPTP-SB10-S03		
Lab Sample ID:	F11075-1	**Date Sampled:**	09/30/01
Matrix:	SO - Soil	**Date Received:**	10/02/01
Method:	EPA 8310 SW846 3550B	**Percent Solids:**	89.9
Project:	NAS JAX- N2872-100101 CTO#0192		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005422.D	1	10/11/01	MRE	10/10/01	OP3946	GEE250
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	740	ug/kg	
208-96-8	Acenaphthylene	ND	740	ug/kg	
120-12-7	Anthracene	ND	370	ug/kg	
56-55-3	Benzo(a)anthracene	ND	370	ug/kg	
50-32-8	Benzo(a)pyrene	ND	74	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	74	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	74	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	74	ug/kg	
218-01-9	Chrysene	ND	370	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	74	ug/kg	
206-44-0	Fluoranthene	ND	370	ug/kg	
86-73-7	Fluorene	ND	370	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	74	ug/kg	
91-20-3	Naphthalene	ND	370	ug/kg	
90-12-0	1-Methylnaphthalene	ND	370	ug/kg	
91-57-6	2-Methylnaphthalene	ND	370	ug/kg	
85-01-8	Phenanthrene	ND	370	ug/kg	
129-00-0	Pyrene	ND	370	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		37-158%
92-94-4	p-Terphenyl	88%		59-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JAX-HPTP-SB10-S03		
Lab Sample ID:	F11075-1	**Date Sampled:**	09/30/01
Matrix:	SO - Soil	**Date Received:**	10/02/01
Method:	FLORIDA-PRO SW846 3550B	**Percent Solids:**	89.9
Project:	NAS JAX- N2872-100101 CTO#0192		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17367.D	1	10/08/01	ME	10/04/01	OP3954	GOP670
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	9.48	9.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		66-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JAX-HPTP-SB11-S03		
Lab Sample ID:	F11075-2	**Date Sampled:**	09/30/01
Matrix:	SO - Soil	**Date Received:**	10/02/01
Method:	SW846 8260B	**Percent Solids:**	87.5
Project:	NAS JAX- N2872-100101 CTO#0192		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K006989.D	1	10/11/01	NAF	n/a	n/a	VK232
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	5.9	ug/kg	
108-88-3	Toluene	ND	5.9	ug/kg	
100-41-4	Ethylbenzene	ND	5.9	ug/kg	
1330-20-7	Xylene (total)	ND	18	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		75-125%
2037-26-5	Toluene-D8	100%		75-125%
460-00-4	4-Bromofluorobenzene	109%		72-137%
17060-07-0	1,2-Dichloroethane-D4	108%		68-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JAX-HPTP-SB11-S03		
Lab Sample ID:	F11075-2	**Date Sampled:**	09/30/01
Matrix:	SO - Soil	**Date Received:**	10/02/01
Method:	EPA 8310 SW846 3550B	**Percent Solids:**	87.5
Project:	NAS JAX- N2872-100101 CTO#0192		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005423.D	1	10/11/01	MRE	10/10/01	OP3946	GEE250
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	760	ug/kg	
208-96-8	Acenaphthylene	ND	760	ug/kg	
120-12-7	Anthracene	ND	380	ug/kg	
56-55-3	Benzo(a)anthracene	ND	380	ug/kg	
50-32-8	Benzo(a)pyrene	ND	76	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	76	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	76	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	76	ug/kg	
218-01-9	Chrysene	ND	380	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	76	ug/kg	
206-44-0	Fluoranthene	ND	380	ug/kg	
86-73-7	Fluorene	ND	380	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	76	ug/kg	
91-20-3	Naphthalene	ND	380	ug/kg	
90-12-0	1-Methylnaphthalene	ND	380	ug/kg	
91-57-6	2-Methylnaphthalene	ND	380	ug/kg	
85-01-8	Phenanthrene	ND	380	ug/kg	
129-00-0	Pyrene	ND	380	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		37-158%
92-94-4	p-Terphenyl	95%		59-149%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JAX-HPTP-SB11-S03		
Lab Sample ID:	F11075-2	**Date Sampled:**	09/30/01
Matrix:	SO - Soil	**Date Received:**	10/02/01
Method:	FLORIDA-PRO SW846 3550B	**Percent Solids:**	87.5
Project:	NAS JAX- N2872-100101 CTO#0192		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17348.D	1	10/05/01	ME	10/04/01	OP3954	GOP669
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	9.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		66-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JAX-HPTP-SB05-S03		
Lab Sample ID:	F11075-3	**Date Sampled:**	09/30/01
Matrix:	SO - Soil	**Date Received:**	10/02/01
Method:	SW846 8260B	**Percent Solids:**	87.0
Project:	NAS JAX- N2872-100101 CTO#0192		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K006990.D	1	10/11/01	NAF	n/a	n/a	VK232
Run #2							

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	6.9	ug/kg	
108-88-3	Toluene	ND	6.9	ug/kg	
100-41-4	Ethylbenzene	ND	6.9	ug/kg	
1330-20-7	Xylene (total)	ND	21	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	6.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		75-125%
2037-26-5	Toluene-D8	100%		75-125%
460-00-4	4-Bromofluorobenzene	111%		72-137%
17060-07-0	1,2-Dichloroethane-D4	113%		68-125%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JAX-HPTP-SB05-S03		
Lab Sample ID:	F11075-3	**Date Sampled:**	09/30/01
Matrix:	SO - Soil	**Date Received:**	10/02/01
Method:	EPA 8310 SW846 3550B	**Percent Solids:**	87.0
Project:	NAS JAX- N2872-100101 CTO#0192		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE005426.D	1	10/11/01	MRE	10/10/01	OP3946	GEE250
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	760	ug/kg	
208-96-8	Acenaphthylene	ND	760	ug/kg	
120-12-7	Anthracene	ND	380	ug/kg	
56-55-3	Benzo(a)anthracene	ND	380	ug/kg	
50-32-8	Benzo(a)pyrene	46.6	76	ug/kg	J
205-99-2	Benzo(b)fluoranthene	ND	76	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	76	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	76	ug/kg	
218-01-9	Chrysene	ND	380	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	76	ug/kg	
206-44-0	Fluoranthene	ND	380	ug/kg	
86-73-7	Fluorene	ND	380	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	76	ug/kg	
91-20-3	Naphthalene	ND	380	ug/kg	
90-12-0	1-Methylnaphthalene	ND	380	ug/kg	
91-57-6	2-Methylnaphthalene	ND	380	ug/kg	
85-01-8	Phenanthrene	ND	380	ug/kg	
129-00-0	Pyrene	ND	380	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		37-158%
92-94-4	p-Terphenyl	101%		59-149%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JAX-HPTP-SB05-S03		
Lab Sample ID:	F11075-3	**Date Sampled:**	09/30/01
Matrix:	SO - Soil	**Date Received:**	10/02/01
Method:	FLORIDA-PRO SW846 3550B	**Percent Solids:**	87.0
Project:	NAS JAX- N2872-100101 CTO#0192		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17368.D	2	10/08/01	ME	10/04/01	OP3954	GOP670
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	44.9	19	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		66-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

TETRA TECH NUS, INC. CHAIN OF CUSTODY NUMBER N2872-100101 F11075 PAGE 1 OF 1

PROJECT NO: N2872	SITE NAME: HPTP	PROJECT MANAGER AND PHONE NUMBER: Greg Rust (904) 281-0400	LABORATORY NAME AND CONTACT: Accutest Linda Williams
SAMPLERS (SIGNATURE): Joe Ferrauh / Greg Rust		FIELD OPERATIONS LEADER AND PHONE NUMBER: Joe Ferrauh (904) 281-0400	ADDRESS: 4405 Vineland Rd #C15
		CARRIER/WAYBILL NUMBER: Courier	CITY, STATE: Orlando, FL

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2001	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)									COMMENTS
						G	G								
						-	-								
						PRESERVATIVE USED									
						TYPE OF ANALYSIS: BTEX + MTBE (GAG & KAG) EPA 8260B; 1-methylnaph, 2-methylnaph & 1/6 PAHs EPA 8310; TRPHs; FL-Pro									
09/30	1050	JAX-HPTP-SB10-503	Soil	G	4	3	1	1							Analyze GAG & KAG
↓	1100	JAX-HPTP-SB11-503	↓	↓	4	3	1	1							
	1115	JAX-HPTP-SB05-503	↓	↓	4	3	1	1							* Same JAR for 8310 & FL-Pro
															note: extra jars for soil was for SB60

1. RELINQUISHED BY	DATE 10/1/01	TIME 1109	RECEIVED BY	DATE 10/1/01	TIME 1109		
2. RELINQUISHED BY	DATE 10/1/01	TIME 1520	RECEIVED BY	DATE 10/1/01	TIME 1520		
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE 10/2/01	TIME 0800		

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

2.8

3/99 FORM NO. TtNUS-001

Accutest Laboratories

Report of Analysis

Client Sample ID:	JX-HPTP-MW1-01		
Lab Sample ID:	F11314-1	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA009475.D	1	11/02/01	MRE	10/31/01	OP4104	GAA416
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	48%		33-141%
92-94-4	p-Terphenyl	75%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JX-HPTP-MW1-01		
Lab Sample ID:	F11314-1	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17961.D	1	10/31/01	ME	10/31/01	OP4099	GOP681
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		55-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JX-HPTP-MW1-01		
Lab Sample ID:	F11314-1	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
		Percent Solids:	n/a
Project:	NAS JAX- N2872 KJ0050120		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed By	Method
Lead	1.2 U	5.0	1.2	ug/l	1	10/26/01	10/26/01 DM	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK		
Lab Sample ID:	F11314-2	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA009476.D	1	11/02/01	MRE	10/31/01	OP4104	GAA416
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	40%		33-141%
92-94-4	p-Terphenyl	83%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK		
Lab Sample ID:	F11314-2	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17962.D	1	10/31/01	ME	10/31/01	OP4099	GOP681
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		55-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK		
Lab Sample ID:	F11314-2	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
		Percent Solids:	n/a
Project:	NAS JAX- N2872 KJ0050120		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed By	Method
Lead	1.2 U	5.0	1.2	ug/l	1	10/26/01	10/26/01 DM	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER JX-HPTP-102401A | PAGE 1 OF 1

PROJECT NO: N2872	SITE NAME: HPTP	PROJECT MANAGER AND PHONE NUMBER: GREG ROOF 904-281-0400	LABORATORY NAME AND CONTACT: ACCUTEST LINDA WILLIAMS
SAMPLERS (SIGNATURE): [signature]		FIELD OPERATIONS LEADER AND PHONE NUMBER: LANE MIDDLETON 281-0400	ADDRESS: 4405 VINELAND RD C-15
		CARRIER/WAYBILL NUMBER: FEDEX 8287 20740502	CITY, STATE: ORLANDO, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G, G, P
PRESERVATIVE USED: H2SO4, NONE, HNO3
TYPE OF ANALYSIS: TRPH FL-PRO, PAH 8310, LEAD ~~EPA 6010~~ EPA 239.2

DATE YEAR 2001	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TRPH FL-PRO	PAH 8310	LEAD EPA 239.2						COMMENTS
10/24	1200	JX-HPTP-MW1-01	G	G	5	X	X	X						COOL TO 4°C
10/24	1035	~~JX~~ HI EQUIPMENT BLANK	G	G	5	X	X	X						

1. RELINQUISHED BY: [signature]	DATE: 10/24/01	TIME: 1700	1. RECEIVED BY: [signature]	DATE: 10-25-01	TIME: 10:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS N2872.KJ0050120

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4.2

3/99 FORM NO. TtNUS-001

Accutest Laboratories

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK		
Lab Sample ID:	F11313-1	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
Method:	EPA 504.1 EPA 504	**Percent Solids:**	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD03540.D	1	10/31/01	SKW	10/30/01	OP4091	GDD132
Run #2							

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK		
Lab Sample ID:	F11313-1	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR007584.D	1	11/03/01	RA	n/a	n/a	GQR312
Run #2							

VOA 8021 List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK		
Lab Sample ID:	F11313-1	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	NAS JAX- N2872 KJ0050120		

VOA 8021 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
75-29-6	2-Chloropropane	80%		56-125%
352-33-0	1-Chloro-4-fluorobenzene	122%		80-120%
352-33-0	1-Chloro-4-fluorobenzene	129%		80-120%
98-08-8	aaa-Trifluorotoluene	107%		70-127%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JX-HPTP-MW1-01		
Lab Sample ID:	F11313-2	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
Method:	EPA 504.1 EPA 504	**Percent Solids:**	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD03541.D	1	10/31/01	SKW	10/30/01	OP4091	GDD132
Run #2							

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JX-HPTP-MW1-01		
Lab Sample ID:	F11313-2	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR007585.D	1	11/03/01	RA	n/a	n/a	GQR312
Run #2							

VOA 8021 List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JX-HPTP-MW1-01		
Lab Sample ID:	F11313-2	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	NAS JAX- N2872 KJ0050120		

VOA 8021 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
75-29-6	2-Chloropropane	82%		56-125%
352-33-0	1-Chloro-4-fluorobenzene	117%		80-120%
352-33-0	1-Chloro-4-fluorobenzene	125%		80-120%
98-08-8	aaa-Trifluorotoluene	105%		70-127%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JX-HPTP-MW2-01		
Lab Sample ID:	F11313-3	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
Method:	EPA 504.1 EPA 504	**Percent Solids:**	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD03542.D	1	10/31/01	SKW	10/30/01	OP4091	GDD132
Run #2							

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JX-HPTP-MW2-01		
Lab Sample ID:	F11313-3	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR007611.D	1	11/05/01	RA	n/a	n/a	GQR314
Run #2							

VOA 8021 List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.82	1.0	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JX-HPTP-MW2-01		
Lab Sample ID:	F11313-3	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	NAS JAX- N2872 KJ0050120		

VOA 8021 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
75-29-6	2-Chloropropane	96%		56-125%
352-33-0	1-Chloro-4-fluorobenzene	110%		80-120%
352-33-0	1-Chloro-4-fluorobenzene	107%		80-120%
98-08-8	aaa-Trifluorotoluene	99%		70-127%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JX-HPTP-MW2-01		
Lab Sample ID:	F11313-3	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA009473.D	1	11/02/01	MRE	10/31/01	OP4104	GAA416
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		33-141%
92-94-4	p-Terphenyl	90%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JX-HPTP-MW2-01		
Lab Sample ID:	F11313-3	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17959.D	1	10/31/01	ME	10/31/01	OP4099	GOP681
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.270	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	100%		55-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JX-HPTP-MW2-01		
Lab Sample ID:	F11313-3	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
		Percent Solids:	n/a
Project:	NAS JAX- N2872 KJ0050120		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method
Lead	1.2 U	5.0	1.2	ug/l	1	10/26/01	10/26/01	DM	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	JX-HPTP-MW3-01		
Lab Sample ID:	F11313-4	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
Method:	EPA 504.1 EPA 504	**Percent Solids:**	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD03543.D	1	10/31/01	SKW	10/30/01	OP4091	GDD132
Run #2							

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JX-HPTP-MW3-01		
Lab Sample ID:	F11313-4	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QR007612.D	1	11/05/01	RA	n/a	n/a	GQR314
Run #2							

VOA 8021 List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	6.2	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	0.62	1.0	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	2.3	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	JX-HPTP-MW3-01		
Lab Sample ID:	F11313-4	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	NAS JAX- N2872 KJ0050120		

VOA 8021 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
75-29-6	2-Chloropropane	95%		56-125%
352-33-0	1-Chloro-4-fluorobenzene	110%		80-120%
352-33-0	1-Chloro-4-fluorobenzene	108%		80-120%
98-08-8	aaa-Trifluorotoluene	99%		70-127%

(a) Confirmed by GC/MS

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JX-HPTP-MW3-01		
Lab Sample ID:	F11313-4	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA009474.D	1	11/02/01	MRE	10/31/01	OP4104	GAA416
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	57%		33-141%
92-94-4	p-Terphenyl	69%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JX-HPTP-MW3-01		
Lab Sample ID:	F11313-4	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17960.D	1	10/31/01	ME	10/31/01	OP4099	GOP681
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.726	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	102%		55-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JX-HPTP-MW3-01		
Lab Sample ID:	F11313-4	**Date Sampled:**	10/24/01
Matrix:	AQ - Ground Water	**Date Received:**	10/25/01
		Percent Solids:	n/a
Project:	NAS JAX- N2872 KJ0050120		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method
Lead	1.2 U	5.0	1.2	ug/l	1	10/26/01	10/26/01	DM	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	JX-HPTP-TB-01		
Lab Sample ID:	F11313-5	**Date Sampled:**	10/24/01
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/25/01
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR007588.D	1	11/03/01	RA	n/a	n/a	GQR312
Run #2							

VOA 8021 List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	JX-HPTP-TB-01		
Lab Sample ID:	F11313-5	**Date Sampled:**	10/24/01
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/25/01
Method:	SW846 8021B	**Percent Solids:**	n/a
Project:	NAS JAX- N2872 KJ0050120		

VOA 8021 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
75-29-6	2-Chloropropane	81%		56-125%
352-33-0	1-Chloro-4-fluorobenzene	116%		80-120%
352-33-0	1-Chloro-4-fluorobenzene	133%		80-120%
98-08-8	aaa-Trifluorotoluene	107%		70-127%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

F11313 0031

TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER JX-HPTP-102401B

PAGE 1 OF 1

PROJECT NO: N2872

SITE NAME: HPTP

PROJECT MANAGER AND PHONE NUMBER: GREG ROOF 904-281-0400

LABORATORY NAME AND CONTACT: ACCUTEST LINDA WILLIAMS

SAMPLERS (SIGNATURE): [signature]

FIELD OPERATIONS LEADER AND PHONE NUMBER: LANE MIDDLETON

ADDRESS: 4405 VINELAND RD C15

CARRIER/WAYBILL NUMBER: FEDEX 828720740513

CITY, STATE: ORLANDO, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G | G | G | G | P

PRESERVATIVE USED: H2SO4 | NONE | HCl | NONE | HNO3

TYPE OF ANALYSIS: TRPH FL-PRO | PAH 8310 | VOC ~~8260~~ 8021 | EDB EPA 504.1 | LEAD EPA 239.2

DATE YEAR 2001	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TRPH FL-PRO	PAH 8310	VOC 8021	EDB EPA 504.1	LEAD EPA 239.2				COMMENTS
10/24	1035	EQUIPMENT BLANK	G	G	6			X	X					COOL TO 4°C
10/24	1200	JX-HPTP-MW1-01	G	G	6			X	X					
10/24	1450	JX-HPTP-MW2-01	G	G	11	X	X	X	X	X				
10/24	1625	JX-HPTP-MW3-01	G	G	11	X	X	X	X	X				
		JX-HPTP-TB-01	G		2			X						TRIP BLANK

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY [signature]	10/24/01	1700	1. RECEIVED BY Heather Ward [signature]	10-25-01	10:00
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS: N2872-KJ0050120

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99

Accutest Laboratories

Report of Analysis

Client Sample ID:	JAX-HPTP-MW04-01		
Lab Sample ID:	F11944-2	Date Sampled:	01/03/02
Matrix:	AQ - Ground Water	Date Received:	01/04/02
Method:	SW846 8021B	Percent Solids:	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QR008096.D	1	01/10/02	RA	n/a	n/a	GQR347
Run #2							

VOA 8021 List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	24.4	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.50	1.0	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	0.81	1.0	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	6.7	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JAX-HPTP-MW04-01		
Lab Sample ID:	F11944-2	Date Sampled:	01/03/02
Matrix:	AQ - Ground Water	Date Received:	01/04/02
Method:	EPA 8310 SW846 3510C	Percent Solids:	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE006952.D	1	01/09/02	MRE	01/07/02	OP4480	GEE316
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		33-141%
92-94-4	p-Terphenyl	87%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JAX-HPTP-MW04-01		
Lab Sample ID:	F11944-2	Date Sampled:	01/03/02
Matrix:	AQ - Ground Water	Date Received:	01/04/02
Method:	EPA 504.1 EPA 504	Percent Solids:	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD04579.D	1	01/07/02	SKW	01/07/02	OP4481	GDD170
Run #2							

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JAX-HPTP-MW04-01		
Lab Sample ID:	F11944-2	Date Sampled:	01/03/02
Matrix:	AQ - Ground Water	Date Received:	01/04/02
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP19178.D	1	01/08/02	SKW	01/07/02	OP4483	GOP716
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	106%		55-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JAX-HPTP-MW04-01		
Lab Sample ID:	F11944-2	Date Sampled:	01/03/02
Matrix:	AQ - Ground Water	Date Received:	01/04/02
		Percent Solids:	n/a
Project:	NAS JAX- N2872 KJ0050120		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	1.7 B	5.0	1.2	ug/l	1	01/09/02	01/09/02 DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	JAX-HPTP-MW05-01		
Lab Sample ID:	F11944-1	Date Sampled:	01/03/02
Matrix:	AQ - Ground Water	Date Received:	01/04/02
Method:	SW846 8021B	Percent Solids:	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QR008095.D	1	01/10/02	RA	n/a	n/a	GQR347
Run #2							

VOA 8021 List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.8	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	0.49	1.0	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	0.84	1.0	ug/l	J
1330-20-7	Xylenes (total)	ND	3.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JAX-HPTP-MW05-01		
Lab Sample ID:	F11944-1	Date Sampled:	01/03/02
Matrix:	AQ - Ground Water	Date Received:	01/04/02
Method:	EPA 8310 SW846 3510C	Percent Solids:	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE006949.D	1	01/08/02	MRE	01/07/02	OP4480	GEE316
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		33-141%
92-94-4	p-Terphenyl	91%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JAX-HPTP-MW05-01		
Lab Sample ID:	F11944-1	Date Sampled:	01/03/02
Matrix:	AQ - Ground Water	Date Received:	01/04/02
Method:	EPA 504.1 EPA 504	Percent Solids:	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD04578.D	1	01/07/02	SKW	01/07/02	OP4481	GDD170
Run #2							

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JAX-HPTP-MW05-01		
Lab Sample ID:	F11944-1	Date Sampled:	01/03/02
Matrix:	AQ - Ground Water	Date Received:	01/04/02
Method:	FLORIDA-PRO SW846 3510C	Percent Solids:	n/a
Project:	NAS JAX- N2872 KJ0050120		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP19177.D	1	01/08/02	SKW	01/07/02	OP4483	GOP716
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	104%		55-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	JAX-HPTP-MW05-01		
Lab Sample ID:	F11944-1	Date Sampled:	01/03/02
Matrix:	AQ - Ground Water	Date Received:	01/04/02
		Percent Solids:	n/a
Project:	NAS JAX- N2872 KJ0050120		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	1.9 B	5.0	1.2	ug/l	1	01/09/02	01/09/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER F11944 HPTP-D10302-A | PAGE 1 OF 1

PROJECT NO: N2872K500501A0	SITE NAME: HPTP	PROJECT MANAGER AND PHONE NUMBER: Greg Roof 904-281-0400	LABORATORY NAME AND CONTACT: Accutest L. Williams
SAMPLERS (SIGNATURE):		FIELD OPERATIONS LEADER AND PHONE NUMBER: Joe Ferranti 904-281-0400	ADDRESS: 4405 Vineland Rd Suite C-15
		CARRIER/WAYBILL NUMBER: FED EX 831160727439	CITY, STATE: Orlando, FL 32811

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

	DATE YEAR 2002	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)								
							PRESERVATIVE USED								
							TYPE OF ANALYSIS	8021 BTEX/MTBE/VOH	504 EDB	PAH - 8310	TRPH - FL-PRO	601.0 Total lead			COMMENTS
1	01/03	1333	JAX-HPTP-MW05-01	GW	G	11		3	3	2	2	1			cool to 4°C
2	01/03	1112	JAX-HPTP-MW04-01	GW	G	11		3	3	2	2	1			

1. RELINQUISHED BY	DATE 01/03/02	TIME 1730	1. RECEIVED BY	DATE 1/4/02	TIME 10:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4.8°

3/99 FORM NO. TtNUS-001